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P.W. Schumacher, J.J. Bayer, S.T. Quarry, J.E. Ingersoll,

L.D. Jones and J.M. Graham





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PREFACE

This report was prepared by T.F. Jenkins, Jr., Research Chemist, H.E. Hare, Physical Sciences Technician, Dr. H.L. McKim, Research Soil Scientist, A.J. Palazzo, Research Agronomist, R.E. Bates, Meteorologist, C.J. Martel, Sanitary Engineer, I.K. Iskandar, Research Soil Chemist, D.J. Fisk, Mechanical Engineering Technician, D.A. Gaskin, Research Geologist, P.W. Schumacher, Physical Sciences Technician, J.J. Bayer, Sanitary Engineering Technician, S.T. Quarry, Physical Sciences Technician, J.E. Ingersoll, Civil Engineering Technician, L.D. Jones, Physical Sciences Technician, and J.M. Graham, Biological Technician, of the U.S. Army Cold Regions Research and Engineering Laboratory.

This study was conducted as part of the U.S. Army Corps of Engineers Civil Works Research Work Unit CWIS 31297, Optimization of Management Techniques for Wastewater Renovation.

This report was technically reviewed by J. Bouzoun and C.J. Merry of CRREL. The comments and suggestions from both of these individuals made a valuable contribution to the preparation of this manuscript.

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PROTOTYPE OVERLAND FLOW TEST DATA: JUNE 1977-MAY 1978

by

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INTRODUCTION

It has been well-established that overland flow land treatment is a cost-effective method of removing nitrogen, oxygen-demanding substances, and suspended matter in warm areas of the United States and in Australia (EPA 1977). However, the effectiveness of this type of system in a region of seasonal cold has never been documented. In addition, the degree of preapplication treatment and disinfection, if any, necessary before wastewater is applied to the soil in this mode of land treatment is unclear.

This study was conducted to provide criteria to enable assessment of overland flow land treatment for use in colder areas of the United States. The specific goals were as follows:

- 1. To obtain criteria to predict nitrogen, BOD, and suspended solids treatment as a function of ambient temperature.
- 2. To determine whether preapplication treatment beyond primary treatment was effective in improving product water quality.
- 3. To document the degree of phosphorus treatment achievable by overland flow.

During the course of this study, wastewater containing a very high concentration of ammonium (>200 mg/liter) was inadvertently applied to the treatment sites in October 1977. We took advantage of this circumstance so that an additional objective of the study became the determination of the nitrification rate under these conditions. To do so, soil samples were collected at various locations on the site on a number of sequential days, and analyzed for exchangeable ammonium and soluble nitrate. These results will be used in nitrogen modeling studies currently underway at CRREL.

The major results of this study have been presented elsewhere (Jenkins and Martel 1978, Jenkins et al. 1978, Martel et al. 1979). This data report is being provided to enable members of the CRREL group and others to analyze these data in an alternative fashion. It will hopefully be useful for validation of mathematical models for prediction of runoff water quality. These models are currently in preparation at CRREL and elsewhere.

DESCRIPTION OF EXPERIMENT

A pilot scale overland flow system (Fig. 1) was constructed at CRREL in Hanover, New Hampshire, in 1976. The Hartland silt loam used in constructing the system was compacted to ensure that permeability would be < 0.1 in./hr. The initial characteristics of the pilot scale system are summarized in Table 1. A more detailed description is available in Jenkins et al. (1978), Jenkins and Martel (1978), and Martel et al. (1979).

The 8.8-m-wide slope was divided into three equal test sections. From 17 May 1977 through 26 May 1978, primary and secondary wastewaters (Iskandar et al. 1976) were applied individually to two of these sections. Tapwater was applied to the third section from 17 May 1977 through 6 January 1978 to act as a control. The wastewater was applied from perforated pipe at a rate of 1.25 cm/day (0.25 cm/hr) four or five days per week.

The amount of water applied (in gallons) and the various parameters of the primary wastewater measured on a daily basis (individual analyses) are presented in Table 2*. All values listed are given in milligrams/liter except as follows: pH - pH units, COND - µmhos/cm, and CF(F) - number of fecal coliforms per 100 ml. The following non-standard abbreviations are used: N(K) - Kjeldahl nitrogen, TSS - total suspended solids, VSS - volatile suspended solids, and COND - specific conductance.

The quantity and quality of runoff from the primary test section are presented on a daily basis in Table 3. The units for these parameters are identical to those used for the applied wastewater in Table 2. Table 4 presents the quantity and quality of wastewater passing through the 15-cm soil profile for the primary section, and collected separately as system percolate.

In a similar manner, Tables 5, 6 and 7 present individual results for wastewater applied, runoff and percolate, respectively, for the secondary wastewater section**. The units are identical to those for the primary section. Tables 8, 9 and 10 likewise present the quantity and quality of tapwater, runoff and percolate from the control section.

Surface water samples were collected periodically from three points on the slope: 3, 15 and 28 m downslope from the application point. Analysis of these samples is presented in Tables 11, 12, and 13 for the primary, secondary and control sections, respectively.

^{*} A value of "-1.0" in Tables 2-10 indicates that no analysis was perfor that parameter.

^{**} At the end of the study, several small leaks were located at the base of the primary and secondary test sections. Therefore, the runoff water volumes shown in Tables 2-10 are lower than actual. Since the leaks were mainly at the base of each section, the concentration measurements should be representative.

Measurement of these water quality parameters was obtained by procedures reported in detail elsewhere (Martel et al. 1979, Jenkins et al. in prep. and Iskandar et al. 1976). A summary of the methods used is presented in Table 14 and a diagram of the sample handling procedures is presented in Figure 2. The precision and accuracy of these test procedures is described in detail in Jenkins et al. (in prep.).

Tabulations of the meteorological data collected in conjunction with this project are presented on a monthly basis in Table 15a-1 (June 1977-May 1978). This data set includes air temperature, relative humidity, wind speed and direction, precipitation, pan evaporation, and daily mean soil temperature. Measurements of evaporation were not made during winter months and were assumed to be small compared to summer pan evaporation.

Plant yields produced over this period on the three test sections are presented in Table 16. These data are presented for each of the three harvests, July 1977, September 1977, and June 1978. Plant tissue analyses were obtained commercially and are presented in Table 17. Plant uptake of nitrogen and phosphorus for each harvest was obtained by multiplying the dry weight of plant material produced (Table 16) by the percentage of that element in the crop (Table 17). These uptake values and a yearly total are presented in Table 18.

Soil samples were collected (Fig. 3) on three dates in October 1977, once during November and December 1977 and again in April 1978. The soils were analyzed for moisture content, certain soluble and exchangeable cations, and soluble nitrate. The data are presented in Tables 19, 20 and 21 for the primary, secondary and tapwater section, respectively. The methods used for analysis are presented below.

SOIL PHYSICAL AND CHEMICAL ANALYSIS METHODS

Soil Moisture

The soil moisture content was determined gravimetrically (g/g) by obtaining the weight loss of a known weight of wet soil after drying at 105° C for 24 hours.

Soil pH

Soil pH was determined by the following method: 5 g of dry soil and 25 ml of deionized water were placed in a centrifuge tube, shaken for one hour, centrifuged for 15 minutes and measured to the nearest 0.1 pH unit with a Markson 1808 combined electrode.

Soluble and Exchangeable NH_4^+ and Soluble NO_3^-

Soluble and exchangeable ammonium and soluble nitrate were obtained as follows. Five grams of sieved (2 mm) dry soil and 25 ml of deionized

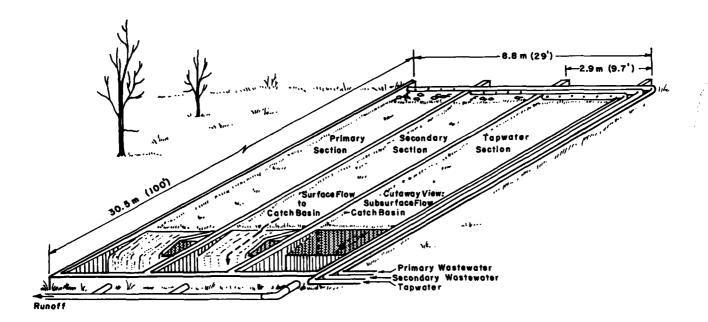


Figure 1. Schematic of prototype overland flow test site.

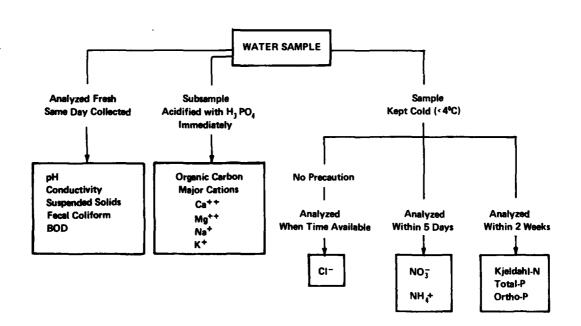


Figure 2. Sample handling procedures.

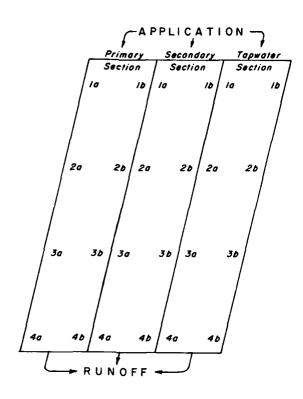


Figure 3. Location of sites for soil chemical sampling

water were added to centrifuge tubes. The tubes were shaken for one hour, centrifuged for 15 minutes and the supernatant decanted carefully. This solution was analyzed for soluble ammonium and nitrate using a Technicon Auto Analyzer II (Jenkins et al. in prep.). The soil was then washed with two additional portions of deionized water, shaken for an hour, centrifuged and these supernatants discarded. Since the soil retained 2.5 ml of water after decanting, 22.5 ml of 1 N (1 normal) KCl was then added to each tube (to obtain a total volume of 25 ml) and the tubes shaken for two hours. The tubes were then centrifuged for 15 minutes and the resulting supernatant poured off and analyzed for exchangeable ammonium as above.

Cation Exchange Capacity

The soil cation exchange capacity was determined as follows. Five grams of sieved dry soil and 25 ml of 1 N ammonium acetate solution were added to a centrifuge tube. The tube was shaken for two hours and centrifuged for 30 minutes. The supernatant was poured off and the soil was washed with several portions of deionized water. The tubes were shaken and centrifuged between washings and the supernatants discarded. As described above, 22.5 ml of 1 N KCl was then added to the centrifuge tubes and the tubes were shaken for two hours. The tubes were then centrifuged for 30 minutes and the resulting supernatant poured off and analyzed for ammonium as above. The milliequivalents of ammonium obtained represent the cation exchange capacity of the soil.

Soluble and Exchangeable Catt, Mgtt, Nat and Kt

The soluble and exchangeable Ca⁺⁺, Mg⁺⁺, Na⁺, and K⁺ were analyzed in a manner similar to the method used for soluble and exchangeable ammonium reported earlier. A 1 N ammonium acetate solution was substituted for the 1 N KCl used for ammonium determination and the analysis was obtained on a Perkin Elmer 303 Atomic Absorption Spectrophotometer as described in Iskandar et al. (1979).

Bulk Density

The bulk density (γd) of the soil was measured through three sections from samples collected at locations indicated in Figure 4 using standard sampling techniques. A cylinder 5.3 cm in diameter X 3.0 cm in depth was inserted into the soil. The sample plus core was first weighed when wet and then after oven drying. The dry weight was divided by the known volume which gave the oven dry bulk density. The samples were taken at two depths, 0-7.5 cm and 7.5-15 cm, and downslope at distances of 3, 12 and 21 m (Fig. 4). The data are shown in Table 22 on a dry weight basis.

The volumetric moisture content was also obtained for each sample using the following equation: $V = \gamma d \cdot \%$ water by weight. The results are shown in Table 22. The average bulk density of the test area was 1.4 g/cm³.

Texture

The locations of samples used for particle size analysis are shown in Figure 4, and the particle size distributions are shown in Figures 5, 6 and 7. The particle size analyses, determined according to standard method ASTM D422, for the sand, silt and clay separate sizes are reported in Table 23.

Moisture Characterization Curves

Moisture characteristic curves for the soils were determined on remolded (Fig. 8) and undisturbed (Fig. 9) samples of the Hartland silt using volume pressure plate extractors and Tempe Cells, respectively. The data on volumetric moisture content vs tension on remolded soil samples from the primary, secondary and tapwater sections are shown in Figure 8. As expected, the drying and wetting curves are not the same. The remolded samples showed a pronounced hysteresis effect.

The method employed using Tempe Cells is described by Ingersoll (1976) and the volumetric pressure plate method by Miller and Elrick (1958). Only the drying curve can be obtained using the Tempe Cell. Two determinations were made on each of the three test sections (Fig. 9. The locations where the samples were taken are shown in Figure 4. Included on each graph is the bulk density (γ d), specific gravity (G_s) and porosity (n) for soil sample.

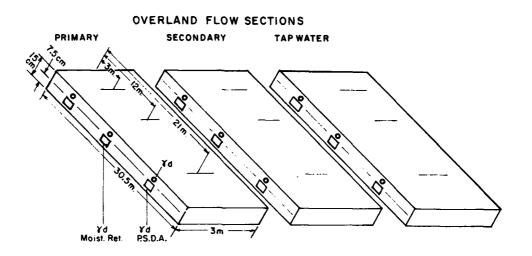


Figure 4. Location of soil samples collected for moisture retention, bulk density and particle size distribution.

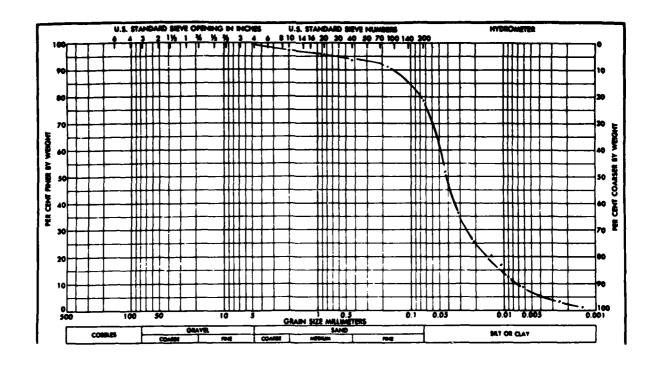


Figure 5. Particle size distribution for primary section.

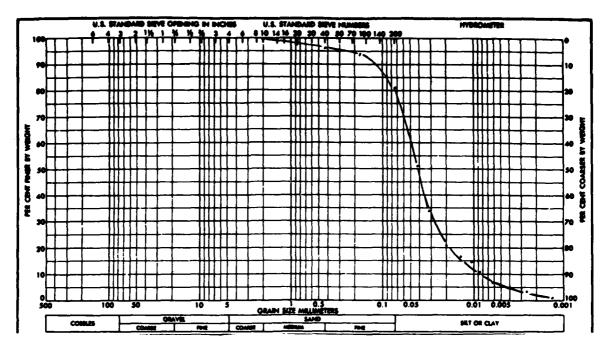


Figure 6. Particle size distribution for secondary section.

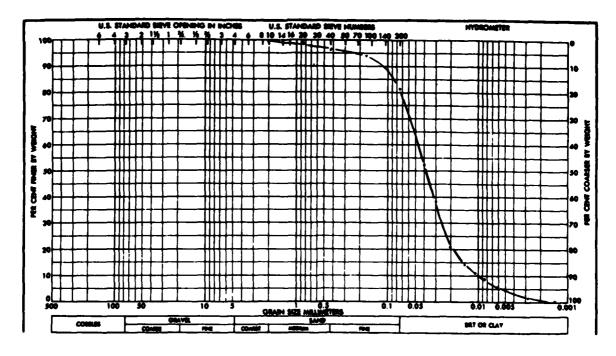
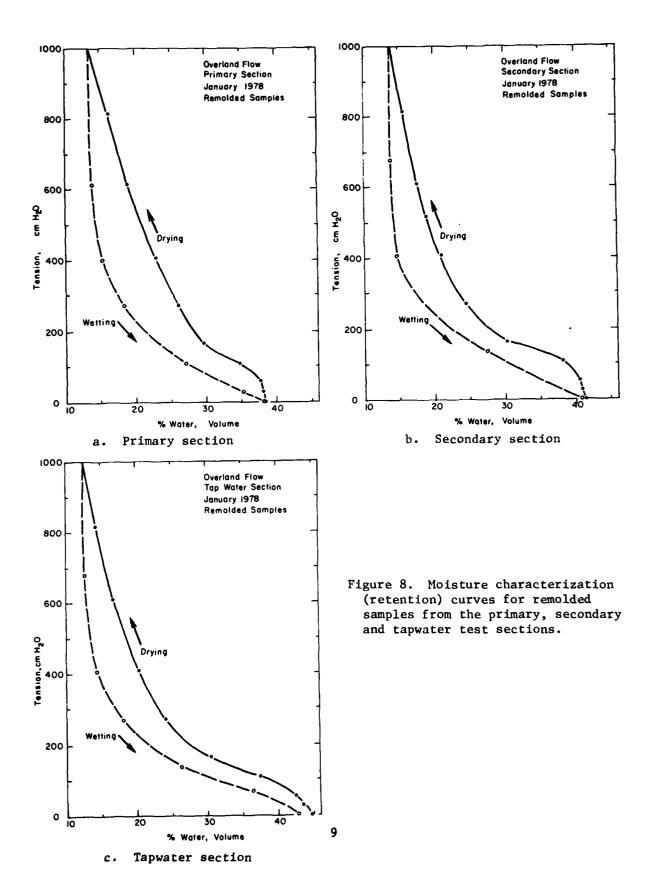
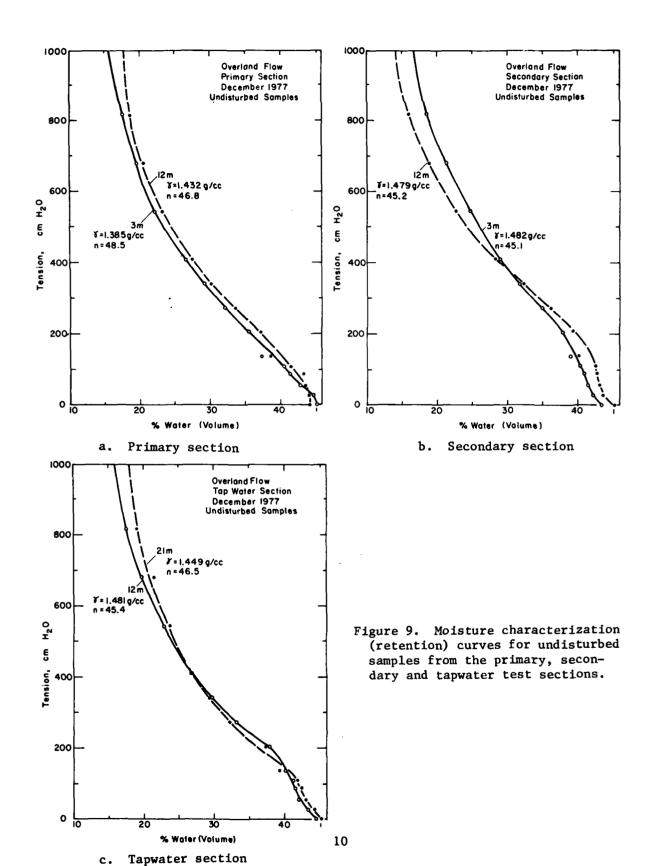


Figure 7. Particle size distribution for tapwater section.





An interpretive report, discussing many of the results presented here, is in preparation (Martel et al. 1979). A summary of many of the most significant findings has been presented in Jenkins et al. (1978) and Jenkins and Martel (1978).

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 <u>Soil Science Society of America Proceedings</u>, vol. 22, p. 483-486.

Table 1

Initial Characteristics of Overland Flow Site

Location	-	Hanover, NH
Latitude	_	43°43'N
Aspect	-	South-Southwest
Prevailing winds	_	West-Northwest
Mean annual temperature	_	7°C
Mean precipitation		95 cm/yr
Mean snowfall	_	185 cm/yr
Slope	_	5%
Slope length	_	30.5 m
Slope width	-	8.8 m (three 2.9 m test sections)
Soil type	-	Hartland silt loam
Soil bulk density	-	1.4 g/cm^3
Soil specific gravity	~	2.7
Soil pH	-	7.1
Soil CEC	-	5 meq/100 g
Soil depth	~	15 cm (underlain by 1 mm rubber liner)
Vegetation	~	Forage grass mixture
G		Orchard grass
		Tall fescue
		Perennial ryegrass
Application rate	-	1.25 cm/day
Retention time of water		
on slope	-	45 min*
Particle size distribution (USDA c	lassi	fication scheme)
Sand (>50µ)	-	38%
Silt (50µ-20µ)	-	39%
Silt $(20\mu-2\mu)$	_	21%
Clay (<2µ)	_	2%

^{*} Under steady state conditions.

				TABLE 2		EMATER APPI	LIED TO PR	WASTEMATER APPLIED TO PRIMARY SECTION		17 MAY 1977 - 31 MAY 1978	MAY 1978						
ATE O	WATER	MOS	- X	NCK)	PCTO	P 04	Bob	TSS	SSA	¥	COND	75	CF. P.	×	CA	£	8
- }	318.00	1.15	29.94	41.61	8.74	-1.0	-1.11		-1.8	7.19	528.11	39.63		-1.6	•: T		1.1-
0	384.88	1.26	38.94	42.73	7.7	-1.1	-1:1	-1.1	-1:	7.65	516.00	33,98	-1.6		• I ·		-
5	314.00	80.1	32,53	36.26	8.8	-1.1	-1.1	1.1.	-1:	95.9	437.88	33,18	-	-:-	1.1.	- 1-	-
2.4	277.88		32,99	37.15	8.14	-1.1-	1.1	-1.61	-1.1	6.13	11.966	33.75	-:-	-: -	-1.	9. 1-	
52	311.00	12.1	38 .33	35.87	6.35	-1.1	-1.1	-1.0	-1.1	6.57	635.11	33.49	-1.5	1 .			-
3.6	327.88	::	34.73	36.95	6.97	-1.8	-1.1	-1.0	-1.1	1.1.	-1.1	37.62	•	-: -	1.1-	-1	-1.6
- F	331.00	1.1	33.99	36.98	7.72	11.1-	1.1.	95.66	48.84	1.28	593.11	37.43	7	• • • •	9. !-	-1.6	-
<u> </u>	192.01	:	37.14	41.56	8.8	-1.1	-1.11		-1.8	7.35	586.11	33.95	-1:1-	•: -	1.1-	-1.8	-
61	315.06	•••	32.63	1:1-	-1.1	-1.1	-1.1	-1.0	1.1.	7.38	545.68	35.19	•: -	••	-:-	-1.	-1.
ų.	286.00	:	33.48	1.1.	-1.0	11.1-	-1.0	11:1-	-1.1	7.35	\$82.88	36.87	-1.6	-1.6	1.1-	-1.	-1.1
œ ;	293.11	1.25	31.16	36.25	6.58	-1.1	86.18	-1.8	-1.1	7.48	413,88	48,28	0.000	-1:1	-1.5	-1.	
5	251.11	7.	34.75	-1.8	-1.1	-1.	-1.1	11:11	1.1.	7.28	611.118	36.95	7	1.1-	-1.1	-1.8	
<u>*</u>	295.11	:	32,23	-1.1	-1.0	-1.1	-1.6	81.21	78.89	-1.1	19.7-	34.85	-1.0	13.8	9.1	2,5	45.6
2	278.01		35.64	36.51	7.59	1.1-	1.1.	11.1-	-1.1		-1.00	34.27	<u>.</u> .	1.1		9.1.	
9	316.88	8.18	34.74	-1.1	-1.1-	-1.1	-1.11	-1.8	1.1.	-1.1	1.1.	33.88	• •	1.1-	-1.6	• • •	-
2	321.11	14.4	32.43	-1.0	-1.1	-1.1	-1.1	-1.1	.1.	7.26	549.11	37.48	-	•: :-	1 :-		-
22	285.61	1.1	33,25	37.98	6.73	1.1-	83.11	-1.11	1.1.	-1:1	-1.66	35,95 6	9.000	1.1-	9.1-		- 1.6
23	299.11	1.1	34.73	1.1-	• · · ·	-1.0	1.1-	-1.06	-1.80	-1.0	-1.66	35.66	1.1.	-1.8	1.1-	*· · ·	- 1 -
5	295.88	::	32.01	-1.88	-1.10	-1.0	7	154.88	755.4	-1.00	-1.60	48.29 -1.8	9:1-	- i .	-1.8	-1.0	
37	88.89	:	37.47	-1.8	-1.0	-1.1	-1.01	-1.1	-1.0	10.1-	-1.00	48 .31	• . !-	9·1-	-1.6	-1.4	-1.6
34.7 Jul. Y	391.88	:	13.73	18.76	3.64	1.1-	1.1.	-1.1	-1.60	6.95	383.68	18.91	. i.	-1.	9.1-	1.1-	9. !-
W۱	107.00	1.13	24.28	11.11		• · ·	-1.16	-1.0	-1.66	7,45	387.88	27.94 2	4886.8	6.1-	9.1-	-1.6	-1.0
v	368.88	:	25.48	31,54	5.12	-1.0	-i .i-	-1.00	-1.1	-1.88	-1.00	26.89	9. j.		-1.6	-1.6	1.1
=	292.11	1.03	27.64	-1.1	-1.1	1.1.	-1.0	19*56	91.28	1.21	453.86	27,25	-1.0	-1.8	9.1-	-1.1	j. [-
<u>:</u>	232.11	1,35	22.95	29.62	4.53	18.1-	1.1-	-1 . 6	. i . 8	-1.88	-1.86	26,05	9.1-	16.1	7.6	2.5	37.4
14	313.00	1.45	23.55	-1.00	-1.10	-1.00	= :	-1.00	1.1.	-1.66	-1.80	27.87	-1.6	-1.6	¥. !-	- I • B	1:1-
<u>"</u>	351.86	99.6	20.12	-1.0	-1.0	11:11		-1.06	-1.68	-1.88	36.1-	27.78	#. -	-1.	-i.f	9.1-	9.11
92	361.00	57.	24.68	1.1.	-1.00	-1.08	-1.06	1.1.	-1.60	7.46	455.88	23,86	-1.6	9.1.	. I .	-1:0	9.1-
2	312.11	9.43	24.87	1.1.	10.1-	1.1-	-1:1-	-1.88	-1.8	11.06	-1.6#	25.63 71	1.141	•T.	1.1-	- 4° [-	
_	319.00	1.92	22.23	19.1-	-1.1	1.1-	15.11	-1.11	10.1-	-1.00	-1.00	31.68	9. I-	e. :-	4. [-	-	• • •

TABLE 2 CONT.

20	E NATER	SCN	3H.4	KCK)	EC.	٥. د	300	75.5	SSA	ŭ.	1:100	i	CFCF	×	ئ پ	맭	3
22	313.00	2.04	24.74	27.37	5.87	-1:0	-1.0	-1.1		-1.66	-1.6		-1.	-1.4	9.1-	-1.1	• • •
2.8	331.00	1.4	25.66	-1.6	11.1-		-1.1	-1.1	-1.1	-1,1	-1.0		••	1.1.	-1:	-1.0	-1.6
2.2	342.00	8 2 8	29.14	-1.1	÷.:-	-1.	-1.1	-1.1	-1.6	-1.1	• i • G		-:-	9. !-	6.1-	9.1-	-1 ·
(.) RC	317.00	91.0	31,59	-1.1	-1.00	-1.1	-1.1	65.14	52.29	-1.1	-1.06		-:	-1:-	-1.6	-1:1	•.1.
83	313.89	84	29.75	31.97	1.70	-1:	-1.0	-1.1	-1.1	7.45	492.00		•	• -	-1.0	-1	-1 -
2 *	316.00	6.19	32.41	-1.6	1.1-	-1.6	-1.1	-1.6	-1.00	7.45	482.86	-	-1.	-1.1	-1.1	-1.0	-1.4
•	665.38	1.76	28.38	30.08	8.8	-1.	-1.0	-i	-1.66	-1.66	1.1-		•••	• • • •	•.1.	1.1.	-1.
Ø	163.88	1.68	31.86	33.97	6.9	-1.1	-1.6	-1.1	-1.0	7.48	561.00		-1:	13.9	9.6	1.8	41.5
=	316,86	18.	32.62	-1:-	-1.1	-1.5	-1.1	1.1.	11.1-	19.1-	· i . i		-1.0	6.1-		-1.1	-1.
8.	11. 196	3.67	20.10	24.85	5.14	-1.0	18.86	-1.1	-1.1	7.45	383.86		9. [-	9.1-	-1.6	9.1-	-1.
6	176.00	1.86	22,36	-1.1	-:-	-1.1	1.1-	-:.	-1.1	-1.66	19.1-		-1.4	6. [-	••	7.	1. 1-
72	536.86	•••	23.56	-1.1	-1.0	-1.0	-1.1	64.75	54.25	1.50	418.60		-:-	-1.1		-1:1	-1.6
36	183.88	1.45	25.32	27.94	4.91	-1.6	11.1-	-1.66	19:1-	18.1-	-1.00		9° I-	9. I -	• • • •	-1.1	-1.6
e di Mili	339.66	1.67	23.67	-1.15	1.1.		-1.1	-1.50	-: ·-	-1.11	-1.1		-1.	1.1-	1.1.	-1.0	-1.6
-	915.00	61.1	29.42	34.71	5.93	:·:	51.11	16.1-	-1.00	7.35	496.11		18111.1	13.6		2.2	38.5
۰ 1	195.00	.70	30.26	34,93	5.52	-1.1	-1.1	19.19	44.88	7.50	587.88		-1:-	-1.6	-1.1	1.1.	-1.6
= 5	322.11	1.23	33.36	-1.1	-1.11	-i .e	-i .i-	-1.86	10.1-	-1.00	-1.00		ē. [-	F. I.	• :	-1.0	-1.6
13	994.66	19.4	24.84	-1.0	-i.	-1.1	-1.1	19.1-	-1.1	7.44	828.88		-1.4	-1.1	9.1-	-1.	-1.
15	298.00	61.1	29.83	34,34	4.47	-1.1	36.88	-1.66	-1.10	-1.80	-1.00		1.11199	-1.1	-i ·	-1.0	-1.6
<u>e</u>	369.66	1.37	36,38	-1.1	-1.0	-1.1	-1.1	1.1.	-1.1	-1.80	11.1-		-:-	9. I -	9.1.	-1.8	-1.
6	311,110	16.1	30.52	34,53	5.47	. i.	10.1-	-1.1	-1.5	7.75	618.819		e: 1-	-1	• · ·	-1.1	
23	637.88	-1.8	30.79	-1.1	-1.1	-1.1	-1:1	-1.1	-1.1	-1.5	1.1.		-1:1-	J. I.	-1:1-	-1.1	-1.4
28	572.00	3.11	29.78	-1.6	-1.1	11.1-	1.1.	-1.1	-1.11	7.63	675.88		-1.6	5	÷.	<u>-</u> :	
53	381.88	1.71	24.29	-1.1	-1.0	-1.	-1.1	-1.0	-1.1	: ·	-1.60		-1.6	• · · ·	-: -	-:-	-1
36	294.11	1.43	22,27	24.14	4.28	-1.0	83.11	-1.1	-1.10	-1.5	-1.68		33166.6	-i .	-: -	-1.	
•	598.00	1.04	23,61	25.74	4,31	-1.1	-1.1	-1.1	-1.0	7.35	383.00		9.1-	: • •	9.6	2.3	35 .5
بد	641.88	.	28.73	. i.	-1.6	-1.11	-1.1	-1.1	-1.00	7.55	416.00		-1 · 0	-: -	-1.0	¥. [-	-1.1
22	66.139	1.54	27.66	26.78	5.62	-1.1	45.11	1.1-	-1:	7.78	446.66		-1.1	-	• -	-1	
~	165.88	3,31	74.58	· i · 6	6.53	-1.8	- -	!	-1.1	9.4	661.11		•	- -	-1 .8.	-1.6	-1.
13	318,00	2,28	277.48	-1.11	5.03	= -	1:1-	-1.06	-1.1	99.6	746.86	26.93	9. ! -	8.6	8.6	2.1	30.7

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4.3	7	-1:		7	7		-1-	54.	÷	-	-	÷	÷	7	÷	÷	÷	÷	÷	÷	7	÷	7	-	÷	7	7	7	÷	-
Ş	-1.6	-1.6	•· -	-1.1	-1.	-1.6	-1.6	2.7	-1.0	-1.0	-1.6	-1.6	-1.6	-1.0	9. !-	-1.6	-1 · 6	-1.0	9. 1 -	-1.4	F. I.	-1.	-i.	÷. i.	-1.6	٠١.	-	ę. I.	• I -	-1.4
Ą	4. I-	-1.0	. :-	-1.0	· :	-1.6	1.1	18.2	9. 1-	7	-1.6	-:	•. I.	9. 1-	-1.8	P. I -	-1.		-1.0	9.1-	9° i -	e: I-	-1.6	÷: ;-	e: !-	-1.6	-1.6	9. I -	-1 -	-1:
*	-: -	•· ·	-i.	-1.0	4. 1-	•. i.e	4. 1-	14.4	-1.0	e. :-	- · ·	-1.0	-1.0	• · · ·	-1.6	. i.	7	<u>.</u>	-:-	. i .	-1.0	- :-	9. I-	9. I -	÷.	-1.6	-	-1.1	7	-1.4
CF(F)	-1.8	-1.6	-1 -	-1.6	-1.8	9.1-	1.1.6	9.1-	J. 1-	9.1-	e. i-	4. I-	9. T-	-i.	8466.6	- i.	-1.6	-1.6	-1.6	-1.6	-1.0	-1.0	• · ·	-1.1	-1 · 6	9. I-	-I •	3188.6	-1.1	-1.1
CL	33.84	27.75	35.46	33,34	34.52	33.87	-1.66	33.91	11.1-	10.1-	-1.86	33,55	-1.66	37.55	-1.66	46.42	39.86	39.87	-1.9	36.98	37,37	38 .32	-1.0	-1.00	37,51	36.13	36.16	39.48	39.84	57.94
CCKD	515.66	-1.1	-1.01	-1.98	1.1-	-1.10	537.08	585.11	-1.46	-1.0	10.1-	528.86	-1.80	-1.66	-1.66	-1.00	-1.00	629.11	-1.66	-1.00	10.1-	683.88	-1.00	-1.10	-1.06	555.00	-1.66	548.88	513.00	583.88
Ä	7.15	-1.11	-1.88	-1.0	-1.00	-1.1	7.6	7.21	-1.1	-1.1	-1.1	8.15	-1.10	-1.88	-1.86	11.1-	-1.11	7.25	-1.1	-1.1	1.1-	7.45	-1.6	-1.1	-1.1	7.75	-1.00	7.05	7.45	8.15
SSA	-1.8	-1.1	1.1-	-1.8	1.1-	-1.0	85,68	-1.6	-1.4	66.00	-1.6	-1.98	-1.68	12.30	1.1-	-1.0	1.1.	-1.6	71.80	-1.1	-1.6	-	67.11	15.11	-1.0	-1.1	-1.1	16.16	66.78	1.00
ئا ب	-1.5	1.1-	=:-	-1.06	÷.1.	-1.0	98.61	-	-1.0	16.01	:::	-1.01	-1:-	8.89	1.1.	1.1-	-1.1	-1:	82.80	-1.88	-1.1		72.41	87.11	-i.	1.1-	-1.60	59.84	17.16	-1.69
3.00	3.3	1.1	-1.	-1.1	-		-1.1	10.1-	1.1.	81.18	-1.60	-1.1	-1.1	168.80	-1.1	-1.1	-1.1	-1.1	-1.1	-1.	-1.1	-1.8	-1.0	-1.1	1.1-	-i · i	-1.0	-1.1	-1.68	-1.6
P.04	1.1.	-1.1	-	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1	-	-1.00	-1.0	7	-1.68	-1:	-1.00	-1.00	19.1-	-1.8	-1.8	-1.11	1.1-	-1.01	-1.80	-1.1	-1.1	-i . i .	-1.8	-1.1	-1.00
PCD	-1.83	-1.1	-1.1	-1.1	-1.	-1.0	1.1-	-1.1	7.29	7.36	-1.8	5.73	-1.1	-1.0	-1.86	-1.08	-1.0	8.87	-1.38	9.19	-1.1	-1.80	-1.60	-1.06	5.77	-1.1	-1.6	5.46	-1.1	91.9
NCK)	1.1-	-1.1	1.1-	-1.1		-:-	-	÷:-	43.18	46.81	1.1-	48.23	1.1.	-1.8	-1.1	1.1-	-	48.73	1:1:	47.94	-1.1	-1.0	1.1-	1.1.	36.63	-ı.:	-1.0	38.21	-1.1	35.61
4 15	32,35	-1.1	28,31	30,66	34.52	49.74	15.06	34.18	35.78	35.92	31.86	31.29	29.65	35.56	31.40	33,48	35,31	39.41	-1.00	38.29	33,23	34,31	-1:1	1.1.	33.44	33.81	32,34	35.82	34.92	29.24
10°		-1.5	1.45	12.1	9.39	1.26	1.56	1.4	1.42	1.51	1.16	1.19	. 85	2.13	12.	1.47	1.32	. 4 .33	-i .	1.43	1.55	1.35	-1.1	-1.1	1.94	1.43	15.1	1.22	12.	1.36
WA TER	2	366.01	359.00	245.00	244.11	50.00	266.11	320,00	261.11	312.00	285.10	219.11	280.00	316.66	295.60	277.11	321.11	123.00	278.88	251.11	202.11	317.68	335.60	284.00	326.11	272.11	383,88	291,11	292.11	298,11
25 13.	į			31																		53	36				v			

		* 53			į	6	Ϋ́	SSA	ä	Chan	5			ຍ	ò	֓֞֝֝֝֟֝֝֝֟֝֝֟֝֝֟֝֟֝֝֟֝֟֝ ֓֓֓֓֓֓֓֓֓֓֓֓֞֓֞֓֓֓֓֞֓֞֓֓֓֓֓֓֓֓֓֓
WA TER	35	# 52	11(1)	1	F04	300						(1)40	i		! ;	
325.00	1.43	26.52	34.87	6.73		-1.1	63.48	54.48	7.45	561.00	-1.6	7	i	6.7	6. 1 -	9.1-
313.00	14.1	28.86	1.1	1.1-	-1.1	-1.1	-1.6	-1:	-1.1	-1.60	-1.0	3864.6		-1	-1.1	-1.
318.06	94.4	-1.1	-1.1	-1.0	-1.0	1.1-	-1.1	-:-	1.1.		58.56	-1.6		9. J.	9. j.	-1.6
288.11		33.18	34.82	6.39	-1.1	- -	-1.0	-1.1	-1.0	-1.00	39.64	-1.6		-1.0	-1.6	-1.0
323.11		31.27	-1.0	-1.	-1.0	95.11	-1.4	-1.1	6.69	292,11	-1.6	-1.6		1.1.	-1.6	
225,11	91.1	27.52	-1.1	-1.	-1.1	-1.1	-1.6	-1.1	-1.10	-1.10	-1.69	-1.1		9.1-	1.1.	-1.6
212.11	6.33	42.13	39.15	6.23	-1.0	= =	11.11	-1.1	-1.00	19.1-	11.11	-1.1		-1.6	9. 1-	ð. I-
19:19	1.25	33.10	35.17	6.24	-1.1	÷:-	49.89	43.28	1.79	473.08	29.17	+ . [-		-1.	-1.0	1.1.
71.	69.1	34.66	39.15	7.12	11:1-		-1.1	-:-	-1.0	-1.1	47.94	1.1-			-1.6	<u>-</u>
386,86	62.0	34.49	41.19	7.61	-1.1	119.51	114,58	93.61	7.29	557,88	41,53	-1.6		-1.0	-1.	-1.
325,11	1.26	33.72	1.1-	-1.1	1.1-	84.61	-1.86	-1.8	7.00	366.88	45.28	126666.2		9.1-	-1.6	-1.8
242,111	1.29	28.37	-1.1	-1.1-	-1.1	111.01	-1.66	-1.6	1.1.	-1.0	41.26	9. 1-		-1.0	-1.	1:1-
312.00	1.12	22.88	11.1-	-1.5	-1.1	-1 .00	-1,66	-1.1	1:1-	-1.6	36.88	-:-		-1.6	-1.0	-1.6
273.00	1.26	29,23	1.1-	-1.96	-1.6	96.70	49.66	34.28	7.18	423.11	37.92	-1.1		-1.8	-1.1	
338.86	1.15	29.11	33.08	4.58	-1.1	136,50	-1.00	-1.88	6.9	515.00	74.86	237606.2		-1.	-1.1	7
243.00	91.0	29.18	-1.1	-1.1	-1.1	183,58	-1.08	-1.8	1.10	11.865	72.04	-1		-1.0	P. 1 -	1.1.
299.00		29 .23	33,23	5.55	1.1.	1.1.	-1.0	-1.1	-1.1	-1.1	76.74	-1.		-1.0	-1.	
365.00	1.21	33.19	-1.1	-i .	-	-1.1	88 .24	18.69	1.1.	1.1-	82.72	34661.0		-1.4	-1.6	-
232.11	8 .23	38.84	-1.1	-1.	-1.16	140.16	1.1-	-1.1	7.65	KB4.68	66.48	•• -		-1.0	9.1-	£.1.
2 49 .11	1.12	37.18	42.25	7.88	-1.1	1.1.	-1.0	-1.1	1.1.	-1.00	67.28	-		F. 1 -	-1.6	• · ·
281.11	===	42.84	54.23	8.35	-1.11	-1.1	-1.1	-1.1	1:1-	1.1.	84.78	1.11169		-1.8	-1.6	-1.
271.00	:	44.19	43.65	8.38	-1.11	1.1.	88.89	52.30	-1.50	-1.1	163,32			-1.6	-1.	1.1.
339.00	1.17	40.17	: · ·	-1.6	-1.0	180.00	-1.11	-1.64	6.95	127.68	71.12	1.1.		1 -	7.7	-1.6
285.00	1.15	23.76	-1.1	-1.1		1.1.	-1	-1.68	-1.1	-1.1	46.76	-1.6		-1.6	-1.0	-1.0
318.88	9.18	21.49	-1.16	-1.1	1.1-	18.11	-1.	-1.00	7.38	391.88	34.88	-		9. 1-	-1.	-1.
373.60	1.49	28.74	32.76	5.37	-1.1	-1.5	<u>-</u>	-1.88	-1.8	-1.00	41.88	-1.0		-1.4	-1.0	-1.6
319.11	::	33.87	-1.1	-1.0	-1.0	19.1-	53,5#	44.66	12.1-	-1.08	-1.88			-1.0	-1.6	7
236,00	:	39.69	-1.1	1:1-	-1.1	-1.1	-1.6	-1.00	-1.0	586.00	-1.00	366000.2		-1.6	1.1.	
295.11	:	35.68	44.15	7.86	-1.5	-1.1	-1.60	-1.1	19.1-	-1.86	-1.68	-1.		-1.0	9. 7-	-1.6
449.11	::	36.88	48.81	6.15	-:-	-1.1	-1.00	1.1.	. i .	-1.88	118.64	7		-1.	9.1-	
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	ដ	78.98	61 .86	67.34	71.76	182,28	45.64	-1.11	19.1-	39.78	37.79	48.65	37.43	36.11	35 ,33	44.19	45.44	40.66	38.28	36.43	35.92	36.68	36.88		37.72	37.72	37.72	37.72 35.41 38.47	37.72 35.41 38.47	37.72 35.41 38.47 37.17	35.41 38.41 38.47 52.13 38.88	35.41 38.47 37.17 32.73 38.84 38.84	35.41 38.47 37.17 32.73 38.84 38.62
	31133	-1.6	721.00	-1.88	741.86	-1.68	-1.66	637.00	-1.00	686.88	-1.66	99.1-	-1.88	-1.00	-1.00	-1.00	-1.88	689.88	-1.88	-1.66	-1.68	99.1-	-1.66		551.88	551.88	551.88	551.88	-1.86			60 60 60 60 60 60 60 60 60 60 60 60 60 6	
	HA	-1.00	7.68	-1.16	7.85	-1.08	-1.00	6.88	-1.90	6.75	-1.88	-1.88	-1.60	-1.88	-1.9	-1.88	-1.88	7.26	-1.60	-1.88	-1.88	-1.98	-1.66		7.44	7.44	7.44	7.44	7.44 -1.96 -1.96		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44.8.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	7. 1 1 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	SSA	-1.	-1.88	-1.66	46.81	-1.69	71.88	-1.00	-1.00	-1.88	76.98	-1.00	-1.99	66.48	-1.06	16.34	-1.88	-1.00	-1.00	-1.88	-1.88	-1.08	-1.98	80 90	1		-1.66	1.88					
	153	=	-1.8	99.1-	67.80	-1.68	87.98	11.11	-1.88	-1.88	91.16	-1.6	-1.0	76.68	-1.68	53.88	-1.88	-1.00	-1.06	-1.66	-1.58	-1.6	-1.00	34.24			-1.8	1.99	1 1 1				
	302	-	276.51	-1.18	-1.0	-1.60	-1.06	-1.10	-1.98	146.86	-1.1	-1.00	14.1-	99.1-	-1.00	-1.00	11.10	149.88	-1.8	10.1-	-1.08	1.1.	-1.08	87.11		;	-1.1	1.1.	1.1.		-1.66	1.98	-1.66 -1.66 -1.66 -1.66 -1.66 -1.66
	P CA		1.1.	-1.0	-1.66	-1.88	-1.80	-1.80	-1.19	1.00	4.68	6.16	6.12	6.48	5.8	5.69	5.54	5.8	5.88	16.5	5.26	5.83	5.37	5.12			5.78	5.78	5.78	5. 78 4. 8 8. 8 8. 8	5.78 5.44 5.48 4.32	8 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.78 5.44 6.24 8.88 6.55 1.64
	7.13		7.76	-1.0	8.73	8.49	-1.66	-1.84	7.12	7.49	-1.14	-1.06	-1.00	11.11	-1.08	7.33	-1.16	5.86	-1.60	-1.60	-1.66	-1.1	8.29	7.53			-1.6	7.11	7.11	-1.08 7.11 7.87	-1.00 7.11 7.07 4.68	-1.00 7.11 7.07 7.07 7.08	1.00 1.11 1.00 1.00 1.00 1.00 1.00 1.00
	H/K)		48.33	1.1-	46.88	42.12		-1.1	42.37	43.22	-1.00	-1.06	-1.81	= 1-	-1.8	48.52	-1.8	31.43	1:1-	-1.8	-1.91	-1.8	45.81	46.39				41.92	41.92	41.92	41.92 1.93 1.39	41.922 -1.88 -31.39 -1.58	41.92 -1.98 58.15 31.39 -1.88
	7 E	41.68	38.83	46.28	36,29	40.87	37.87	35.81	33 .47	33.42	29.64	35.76	37.44	38,32	35.72	35.57	36.98	36.97	48.64	46.63	34,52	33,83	32 ,48	33,46	35.88	35.		31.48	31.48	31.48 58.16 35.34	31.46 56.16 35.34 29.36	31.48 58.16 35.34 29.36 26.41	31.48 58.16 35.34 29.36 26.41
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	E WATER	385,11	397,11	242.61	278.88	347.88	358.11	385.88	301.00	289.00	311.08	313.00	319,01	314.00	131.88	167.00	339.86	289.96	294.11	361.00	337.00	326.11	318.00	311.00	213,64	213		317.10	317.88	317.88	317.88	317,88 1844,88 349,88 374,88	317.88 1844.88 349.88 374.88 363.88
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CA	9-1-	-1.0	-1.8	1.1-	-1.6	-1.0	15.6	8.1-	-1.8	-1.8	-1.8	-1.0	-1-	-1.0	-1.8	e	-1.6	2.1-	9.1-	1-1-1	-1.8	-1.8	9-1-	-1.6	9.0		9.1-	ta ta • • □ □	\$ \$ \$ \$ 	50 50 50 50
E ×																														4. 5. 10. 10.
CFC	-1.6	211111.1	-1.0	e. [-	-1.8	-1.0	4258.8	1.1	75588.8	-1 .A	4, [-	-1.6	9.88.6	-1.0	-1.8	÷. i.	-1.0	13458.8	-1.8	-1.6	-1.0	23080.0	-1.6	-1.6	-1.9	9	9. 1	9.1-		5
CL CL	31.16	36.46	35,98	34.26	38.57	39.15	33.86	38.65	41.52	48.18	38.39	48.95	37.83	36.64	36.56	36.17	34.55	31.95	31.84	32.73	-1.66	-1.68	-1.56	-1.66	36,39	-1.00		31,88	31,88	31.85
0,400	394.85	-1.66	438.11	-1.88	456.88	-1.68	413.86	456.86	-1.00	-1.60	529.98	496.98	-1.88	-1.66	531,58	-1.00	528.68	-1.88	-1.80	521.00	-1.66	-1.68	516,38	\$56,96	524.16	435.58		66.(-	-1.99	-1.88
PH	7.45	-1.	7.19	-1.8	7.45	-1.88	7.66	7.43	-1.00	-1.66	7.49	7,52	-1.8	-1.88	7.27	-1.88	7.39	-1.00	-1.88	7,28	-1.88	-1.60	7.55	7.19	7,33	7.55		-1.98	-1.98	-1.98 -1.86 7.45
SSA	-1.00	-1.66	36.38	-1.99	-1.11	-1.9	16.79	-1.91	67,34	-1.66	-1.68	-1.88	-1.88	19.61	-1.6	-1.8	1.89	52.26	-1.80	-1.1	-1.86	-1.8	51.48	-1.86	19.	9 J. I-		-1.80	-1.88	
75.5	-1.01	-1.0	57.68	-1.91	1.1-	-1.86	34.28	-1.00	78.38	-1.68	-1.66	-1.88	-1 .00	32.48	-1.00	-1.88	-1.86	52.86	1.60	-1.59	99.1-	-1.88	56.48	-1.88	-1.0	-1.68		-1.00	-1.66	1. 1. 6
300	55,00	-1.0	1.1-	7.00	98.88	-1.61	-1.90	29.84	-1.66	-1.88	83.56	88.89	-1.0	-1.8	69.11	-1.68	65.86	-1.00	-1.66	188.18	-1.0	-1.1	88.88	45.88	185,68	8.8		11:11	-1.88	-1.8
Po4	2.58	2.86	3,11	2,83	2,57	3.58	3.48	3,33	5.69	5.35	4.36	3.57	-1.68	-1.69	-1.98	-1.88	-1.88	-1.88	-1.86	-1.88	-1.00	-1.86	1.1.	10.1-	-1.89	93.1-		99.7-	1.1.	
PCTD		-1.1	5.15	-1.1	-1.11	6.33	-1.88	-1.00	-1.00	-1.04	-1.68	-1.88	-1.98	-1.66	-1.8	-1.88	-1.88	4.26	-1.06	-1.88	-1.96	1.1.	4.84	-1.16	7.29	-1.68		-1.86	8.64	
KCK)	-1.1	-1.1	30.88	19.1-	-1.00	36.56	-1.88	-1.86	-1.11	-1.10	-1.64	-1.88	-1.80	-1.11	-1.1	-1.8	-1.1	41.65	-1.0	-1.0	-1.1	10.1-	32.66	• -	49.43	1.1.			46.86	98.84
至	16.83	19.63	19.50	18.63	16.62	22,19	18,82	21.73	28.27	28.77	36,56	23,35	24.26	26.83	31,63	31.49	30.18	53,29	33.84	31.69	37.88	25.34	27,36	32.44	39,64	-1.1		31.28	34.48	34.48
NOS	1.08	.83	.64	1.24	1.18	18.8	1.19	1.08		1.15	1.43	1.62	6.17	1.18	61.19	1.12	1.21	9.00	11.0	1.1	21.1	:	1.21	1.55	::	-1.1	•	14.12	14.12	14.12
DATE WATER	315.00	261.11	296.68	365,00	273.00	291.88	265.11	=	295.80	216.00	297,00	318,16	299.00	311.00	312.00	355,00	297,11	535.86	396.11	247.88	311.11	311.11	326.00	612.11	315.88	331.60	***	220	351.11	356.86
			•	ç	7	<i>3</i> ~	2	4	11	œ	61	12	5.4	52	S &	61	8.5		~		a,	v.	<u>.</u>	<u>:</u> 3	11	61	22			22 4

TABLE 2 CONT.

						TABLE 3	RUNOFF	PROM PRIMARY	Y SECTION	17 MAY 19	77 - 31 MAY	1978	-				
3 T	WATER	NO3	NH4.	NCK)	PCT)	P04	300	ISS	vss	£	COND	CL	CF(F)	×	CA	₩.	A.
6 I	68.84	12,1	1:1	2.74	8 .44	10.1-	-1.80	90.1-	1.86	7.15	332.68	48.46	6.1-	-1.6	-1.6	-1.0	-1.6
John	JUNE 128.88	67.4	3.91	-1.88	-1.1	-1.8		-1.68	-1.68	7.58	294.08	28.00	9. I -	9. !-	9.1-	-1.8	-1.0
7	258.00	:	1.19	-1.00	-1.0	-1.88	-1.68	-1.66	-1.60	7.68	358.68	49.12	-1.0	-1.0	9.1-	-1 • f	-1 -
م	126.11	1.21	14.12	13.58	2.5	10.1-	21.00	19.1-	-1.68	7.98	549.88	48.64	9.1-	-1.0	-i.	9.1-	-1.6
15	154.68	86.	6.29	9.22	2.17	-1.66	1.1-	8.68	4.68	7.55	465.88	39.82	٠١٠6	15 ,3	31.5	٠. 4	37.6
16	81.41	1.1	11.15	11.11	-1.08	19.1-	-1.68	10.1-	-1.68	-1.66	-1.68	38.83	- I • B	-1.0	-1.6	-1.8	-1.6
21	:	1.12	11.46	-1.88	-1.6	11.11	-1.00	1.68	-1.66	7.38	498.88	38,24	. i	-1.0	-1.0	-1.8	-1.6
23	63.11	1.87	6.59	18,34	3.57	-1.80	6.28	-1.68	-1.69	-1.68	-1.68	42.74	9.6	9.1-	-1.8	-1.6	-1.1
28		1.95	14.58	-1.81	3.42	-1.68	-1.88	6.47	2.48	-1.66	-1.88	40.67	-1.6	-1.0	9.1-	-1.6	-1.6
יים ר		1.37	3.85	-1.86	-1.06	-1.68	-1.98	-1.69	-1.68	7.56	316.60	18.77	9.1-	-1.0	-1.8	1.6	-1.6
v	:	1.18	3.66	4.94	1.69	-1.68	-1.66	-1.60	-1.69	7.78	327.08	21.64		J. I.	-1.6	-1.6	-1.6
7	:	8,33	3.87	-1.99	-1.98	-1.89	2.8	-1.60	-1.88	-1.66	-1.68	22.61	-1.0	-1.1	9.1-	-1.6	-1.0
· =		1.21	1.79	-1.68	-1.88	-1.66	-1.69	7.36	2.72	7.55	324.68	22.51	-1.0	-1.B	4. I -	-1.6	-1.6
≃ 20	::	2.37	1.42	-1.88	-1.11	10.1-	-1.48	-1.96	99.1-	99.1-	-1.68	22.61	9.1-	-1.0	-1.6	-1.0	-1.8
±	:	1.57	0.12	1.63	1.44	-1.66	-1.00	-1.80	-1.66	-1.88	-1.68	23.78	-1.6	16.9	28.1	4.1	31.1
57	:	1.17	9.46	-1.68	-1.00	-1.86	-1.68	-1.86	-1.88	-1.86	-1.08	28.87	9.1-	- i . B	-1.6	• -	-1.6
18	58.11	.38	2.96	-1.08	-1.66	1.1.	-1.00	-1.86	-1.88	-1.64	-1.00	-1.88	27.0	. I -	9.1-	-1.0	-1.6
18	1.1	9.46	2 .85	-1.06	10.1-	##· I -	-1.88	-1.86	-1.88	7.58	387.00	27.56	-1.0	9·1-	-1.8	-1.6	-1.6
23	:	15.1	2.96	5.55	2.41	-1.88	-1.00	-1.80	-1.88	-1.86	-1.86	26.72	-1.6	-1 -	9. 1-	1.6	-1.6
12	::	6.45	3.36	-1.96	-1.66	-1.00	9.19	-1.06	-1.66	-1.68	-1.08	27.83	٠.١.	-1.0	-1.	9. 1 -	-1.6
22	68.11	6.11	5.10	-1.00	-1.00	-1.00	-1.98	-1.68	-1.88	-1.68	-1.68	95.96	9.1-		•· I-	ē. 1	
2 8	::	4.78	6.97	-1.0	-1.60	- I . 60	-1.88	-1.86	-1.00	-1.06	-1.00	68.12	٠١.	-1.6	-1.6	-1.6	-1.6
27	21.61	4.29	7.14	16.1-	-1.66	-1.89	-1.86	-1.00	-1.66	7.48	527.88	48.36	٠١.	a	-1 · f	-1.1	-1.6
28	180.00	5,36	7 .36	-1.00	-1.60	-1.69	11.1-	5,53	4.47	-1.60	-1.66	38.69	-1.0	-1.	-1.	-1.4	-1.4
52	58,11	6.42	7.12	9.01	4.68	-1.06	-1.06	-1.66	-1.00	-1.88	-1.88	35 .45	-1.6	-i .	Ŧ		-1.4
£ 4,	127,06	6.84	3.44	-1.86	-1.86	-1.69	-1.0	-1.88	-1.61	1.68	417.66	34.86	115.6	-1.4	1:1-	1 :	-1.6
6	193.00	9,23	7.95	19.65	4.69	-1.60	-1.60	-1.61	-1.88	7.45	450.00	31.97	ē. ī-	۱۱.۴	25.2	. 4.5	43.7
22	484.88	3.16	9.78	-1.00	-1.8	1.80	-1.6	-1.8	-1.1	-1.88	-1.66	88.56	-1.6	1.1-	-		-
8.	95.88	6.25	=:	-1.88	-1.80	-1.66	16.98	-1.68	-1.81	7.45	346.96	25 .3 4	 	-1.1	9.1-	P. 1.	-1.
ŠÌ	15.11	68.	15.1	-1.8	-1.88	-1.86	-1.86	-1.60	-1.11	-1.66	-1.60	23,95	e: I-	-1.	-1.6	-1.	-1.6

						į	1		<u>.</u>	200	9		()	×	40	ç	4.2
8	WATER	SOS.	A X 2	acx)	P(T)	P	300	ag	cen			•					
54	123.00	1.52	1,93	2.83	2,26	1.1.	-i.i.	9.46	8.28	7.55	334.88		••	8. [-	1. [-	•	-1:
96	129.00	1.55	1.16	-1.8	-1.1	-1.6	-	-1.10	-1.00	-1.84	-1.66		9. 1-	-i.	-1.0	-1:-	-i.
. B	8	\$6.1	1.25	-1.68	-1.1	-1.1	-1.1	-1.1	-1.0	-1.86	-1.60		9. I-	•:	-1.	#· -	-1:-
SEPT	128.89	1,12	1.78	-1.88	-1.1	-1.88	13,98	-1.68	-1.68	7.75	376.88		811.1	5.3	24.4	4.5	47.3
, ~	12.11	5.63	1 .28	4.54	2.3	-1.60	-1.66	14.33	6.13	7.65	375.18		-1 ·8	-1.8	1.1-	-1.1	1.1-
Ø	58.88	1.87	5.63	-1.68	-1.86	-1.80	-1.68	-1.88	88° -	-1.88	-1.55		9.1-	9.1-	9.1-	-1.8	
13	255.11	2.96	3.74	-1.1	-1.68	-1.86	-1.0	-1.00	-1.66	7.97	483.88		-1.6	- · ·	-:	-1.0	-1.6
4	447.00	1.54	6.25	1.13	1.63	-1.88	-1.00	99.1-	-1.8	7.45	487.00		9.1-	9.1-	4.1-	-1.0	-1.8
. <u></u>	78.11	2 .44	2.65	-1.0	-1.88	-1.66	6.28	19.1-	-1.58	-1.06	-1.66	33,38	8.0992	-1.0	9. [-	9. [-	-1 :6
91	138.86	3,33	15.0	-1.08	-1.88	-1.00	11.1-	-1.98	-1.66	-1.86	-1.89		-1.8	9. [-	e. I-	-1.	-1.
2	485.00	40.8	9.0	77.	9.37	-1.6	-1.10	7.48	7.48	7.88	386.88		9.1-	-1.6	-1.6	-1.	•· i-
22	238.11	86.1	3.79	-1.61	-1.66	-1.00	-1.1	3.70	-1.66	-1.88	-1.00		-1.0	-1.8	e. I -	-1. 6	-1.0
4.	179.00	1,23	1.16	-1.8	- 1 . 8 8	-1.60	-1.0	16.1-	-1.66	7.98	265.88		g. [-	9. [-	-1. 9	-1.0	-1.4
% 21	214.11	2 .35	3,29	5.88	2.76	-1.69	<u>.</u> .	-1.88	-1.86	7.75	467.88		9.1-	9.1.	-1.6	- 1.	•: [-
8	154.66	1.16	59.1	-1.66	-1.64	-1.00	-1.11	-1.69	-1.88	-1.68	-1.88		9:1-	P. 1-	9.]-	•· ·	- I -
3.8	90.191	1.54	.26	-1.01	-1.86	-1.88	2.78	-1.66	-1.88	-1.86	-1.66		1.172	-1.8	9.1-	4. 1 -	-1.
L'S	615.00	12.	1.15	1.26	1.49	-1.68	-1.00	-1.00	11.00	-1.6	-1.88		-1.6	5.	15.6	2.2	13.7
4	214.00	1 .22	2.63	4.24	2 28	-1.88	-1.08	-1.8	-1.00	7.68	328.86		-1.1	9.1.	-	9.1-	-:
ĸ	244.00	9.82	2.78	-1.60	-1.1	-1.1	-1.06	-1.00	-1.1	7.65	315.68		•:-	-1.0	-ı · ı ·	-1.0	-1.0
=	479.01	1,23	f.12	1.46	1.12	-1.00	-1.68	-1.68	11.11	99.1-	19.1-		-1.1	6.5	17.8	2.4	15.9
21	214.88	2.51	2.2	-1.00	-1.00	-1.0	1.88	-1.66	-1.68	7.75	323.00			-1.0	-1.	-: -	-1.0
18	844.88	61.1	1.21	2.51	s.	-1.66	1.1-	-1.06	-1.81	7.68	147.08		-:-	-1.4	•· i ·	-1:-	-1.6
61 .	114.88	4.54	94,35	-1.06	4.39	-1.1	1.1-	-1.66	1.1.	8.8	886.60			18.6	17.4	2.4	28.5
20		4.15	4.85	-1.00	-1.66	-1.86	17,13	-1.68	-1.99	6.95	244.00		·:	•. ī-	-1.1	÷: [-	-1.9
27	135.00	1.84	6.25	-i .ff	-1.86	-1.66	-1.1	-1.00	-1.00	-1.06	-1.00		-1:-	-: -	-: I-	÷:-	-1.6
28	115.11	2.10	7.15	-1.00	11.1-	-1.1	1.1-	-1.86	-1.6	-1.0	-1.00		-1 ·	-i.	-:-	-1.4	-1:
31,	34.88	2 .82	5.82	-1.8	-1.8	-1.8	-1.00	-1.06	-1.8	-1.66	-1.66		J : 1-	J. I.	J. I.	-1.0	-1.4
 	33.00	3.28	7.18	-1.60	-1.69	19:1-	-1.00	-1.60	-1.00	-1.68	-1.06		-:	-: -	. .	-1	-1.6
er,	165.00	3.84	6.76	-1.1	-1.00	-1.66	-1.8	18.28	11.58	7.68	428.88		• -	-:	e	-1	4.1-
r-	181.18	3.15	7.97	-1.88	1.1.	11.11	-1.1	-1.68	-1.0	7.95	468.88		1.1.	9.4	28.6	4 .	45.2

-	24 TEX	103	4 H.	3CX):	P(T)		305	:32	VSS	iid.	ฉหมว	CL	0.50	×	d C	9	
a.	104.00	1.76	11.55	13.61	4.17	-1.0	-1.88	-1.00	-1.66	-1.00	11.86	99.1-	9.1-	9.1-	-1.1	•: -:	
ø	172.11	3.33	8.89	-1.0	-1.00	-1.8	17.20	12.66	11.38	-1.06	19.1-	-1.88	-1.6	9. 1-	-1.8	-1.	
	115.01	1.85	7,93	-1.61	-1.66	-1.88	-1.88	19.1-	-1.68	-1.00	-1.88	-1.96	9.1-	-1.6	P. 1-	-1.6	
4	256.11	2.44	5.16	7.11	2 .2 1	-1.61	-1.86	-1.88	-1.80	7.75	316,88	20.68	-1.0	1.1.	-1.5	-1.8	-1.6
5	339.00	4.14	14.19	-1.1	-1.1	-1.66	-1.88	-1.86	-1.00	-1.88	-1.00	-1.00	-1.6	1.1.	e. !-	7	
9	112.61	5.68	13,82	-1.86	-1.88	-1.88	17.28	68.8	6.68	-1.88	-1.88	-1.88	9.1-	-1.0	-1.6	-1.0	
<u>.</u>	118.11	5.61	4.67	-1.88	-1.1	-1.66	-1.0	-1.66	-1.08	-1.00	-1.68	1 00.1-	8.886.	. I .	• -	-1.6	
18	125.00	2.19	9.57	1.1-	19.1-	-1.88	-1 ,86	-1.69	99.1-	-1.66	-1.88	41,34	-1.6	•	-1	-1.6	
21	186.88	2.78	15,42	-1.06	-1.88	-1.88	1.1.	10.1-	-1.00	-1.88	-1.88	38.16	.i.	8. 7	9. 1-	-1.6	
22	14.88	5.14	6.81	18.73	4.34	-1.88	-1.61	-1.66	-1.86	7.65	409.88	37.81	9.1-	-1.6	-1.6	-1.6	
23	111.00	11.1-	1.1.	-1.88	-1.88	-1.98	-1.90	25.48	18.40	-1.00	-1.08	-1.88	9.1-	- - -	-1.8	9. 1-	
88	474.88	1.96	13.30	-1.06	10.1-	13.1-	-1.88	-1.88	-1.0	-1.00	-1.69	31.14	9.1-	1.0	-1.6	-1.0	
25	191.161	2 .43	18.52	-1.01	-1.00	-1.00	-1.86	8 9 . 1 -	-1.88	7.85	584.88	36.85	4· 1-	9. 1-	1.1-	e. I -	
e. Mi	172.00	1.1-	10.1-	-1.8	-1.08	-1.66	-1.00	15,66	13.88	-1.88	-1.88	-1.68	-1.6	-1.0	-1.6	-1.4	
DEC 1	211.16	-1.8	-1.6	-1.68	-1.58	-1.88	.1.	13.88	13.88	19.1-	-1.88	-1.00	1.1-	-1.6	-1.6	-1.	
	277.11	1.32	19.1	-1.00	-1.60	-1.80	-1.88	-1.80	-1.00	7.65	186.66	14.16	9.1-	-1.0	-1.6	-1.0	
8	141.11	33.66	15.48	18.98	4.42	-1.68	-1.00	-1.06	1.99	-1.00	-1.66	34.84	-1 · 8		1. 1-	-1.1	
~	114.11	3.16	22 .19	-1.08	-1.88	-1.86	-1.00	-1.64	-1.88	1.98	513.88	38,18	-1.6	-1.6	-1.0	-1.6	
ĸ	149.66	2.99	21,15	1.1-	-1.08	-1.98	-1.66	-1.08	-1.86	-1.01	-1.66	38,61	-1.6	e	• -	-1.	
œ	123.00	4.81	16.47	18.16	3.86	-1.00	-1.6	16.70	14.98	1.58	484.00	38,37	506.8	9.1-		-1.1	
ø,	134.88	3,34	20.17	-1.1	-1.00	-1.86	-1.6	19,36	18.51	7.65	492.68	38.21	-I.	-1.6	-1:	1.1.	
13	187.88	3.66	18,96	21.68	5 ,29	-1.86	-1.66	-1.86	1.1.	1.96	532.88	51.81	-1.8	-:-	-1.6	-1.6	
4	188.88	4.63	16.89	20.32	5.38	19.1-	- I . B 6	10.61	11.6	1.98	520.00	-1.66	9· I-	-1.6	-1.	•1.1-	
2	267,11	3.33	14.55	-1.88	-1.00	-1.00	-1.5	-1.1	-1.00	10.1-	-1.68	-1.88	3689.8	4.		-1:-	
16	141.11	3,38	18.78	-1.88	-1.88	-1.68	-1.8	1.1.	11.1-	-1.64	-1.66	44.82	-1.0	-1.6	7	• 1 -	
21	137,00	4.34	19.08	19.15	16° ¥	-1.66	-1.64	-1.0	-1.00	-1.0	-1.80	38.85	7:7-	-:-	-1.0	-1.0	
22	149,86	4.78	14.85	11:11	-1.08	-1.66	27.00	-1.88	-1.8	6.78	424.88	-1.80	-1.8	-1.1	-1.6	-1.0	
23	83.00	4.75	14,29	1.1.	-1.60	-1.88	11.1-	-1.00	19.1-	98.1-	-1.48	49.1-	• • • •	-1.6	-1.8	-:-	
38	172.00	5.94	14.59	16.11	4.46	-1.01	-1.00	11.1-	-1.88	-1.68	-1.04	13.46	-1.0	e. I-		7-	
2	99 50	8	23.81	24.88	19.6	93-1-		***	A.9 A	7.65	485.88	10.1-	1.1.	4,11		•	

									TABLE 3 CONT.	XONT.					_	(2	
DATE	TE WATER	103	13H 4	RCKO	PCT)	P 0.4	390	TSS	SSA	Hd	CHOD	ដ	CF(F)	×		§ 3)	Ą.
JAR.	3 169.06	3.82	27.77	31.01	6.68		= -	1.1-	-1.66	-1.6	-1.06	48.86	-1.1	-1.1	-1.6		7
4	177.86	3.61	28.91	32.81	5.75	11.11	38.25	9.38	8.68	7.15	372.00	41.31	-1.0	•	1 .1-	-	
u)	199.00	3.16	27.54	-1.1	-1.0	-1.00	27.11	-1.6	-1.13	7.85	556.88	44.52	54888.8	-	-1.6	-1.0	
ų.	164.11	3.86	23.25	1.1-	-1.1	1.1-	29,25	-1.1	60.1-	-1.60	-1.00	48.68		-1.5	9.1-	-1.6	7
6	1518.00	1.27	1.55	-1.0	-1.1	-1.1	-1.0	-1.08	-1.60	-1.66	-1.86	5.28	33.46.6	-1.6		-1.9	-:-
-	145.00	2.58	18,76	-1.1-	-1.0	-1.1	-1.1	-1.68	19.1-	-1.66	-1.68	33.86		-1.0	-1.1	-1.6	-
=	188.88	4.83	24.74	1.1-	-1.0	<u></u>	58.80	19.28	13.50	7.28	468.88	33.72		- I ·	1.1.	-1. 8	1.1.
12	227.11	1.51	26.17	36.19	4.47	-1.1	19.76	-1.80	1.1-	6.95	626.88	78.58	366666.2	-i ·	-1.	-1.0	-1.6
13	136.81	2 . 52	25.51	-1.11	-1.80	10.1-	56.25	-1.68	-1.60	7.38	616.88	71.18			-1.	-1.6	-1.
١٠	166.88	2.76	24.44	28.29	5.14	-1.8	-1.1	-1.68	-1.1	-1.00	-1.86	71.78	-1.8	.	-1.0	-1.1	1.1
1.7	313.66	2 .33	28.39	-1.1	-1.11	-1.00	-1.60	13.68	11.56	-1.8	-1.00	78,28	46888.0	-1.0	1.6	-1.6	-1.6
80	141.88	3.75	26.14	-1.1	-	1.1.	39.88	-1.88	-1.11	7.88	668.88	64.52	· · ·	1.0	-1.6	-1.6	-1.
26	129,00	3.35	29.62	32,11	5.48	-1.86	1.1.	99.1-	-1.86	-1.86	-1.01	8.8	-1.6	1.1-	-1.	•:1-	-1.
£ 2	154.00	6.65	27.98	32.18	5.85	-1.01	1.1.	-1.86	-1.00	-1.98	-1.68	62,36	38888.8	-i.	-1.6	-1.0	-1.6
₹ 23	148.60	4.83	29,99	31.10	5.43	1.1.	-1.60	12.66	11.40	10.1-	-1.86	97,38	-1 · 6	1.1-	-1.6	-1.6	-1.4
63	263,00	2.26	31.62	-1.8	-1.64	11.1-	15.80	-i . 04	-1.64	6.85	716.88	67.58	1.1.	9.1.	-1 -	-1:-	-1.
3	465.88	\$7.4	2 .98	-1.0	-1.69	-1.86	-1.1	19.1-	-1.80	-1.80	-1.88	9.28	-	9. 1-	-1.6	-:	-1.
26	614.88	e.	6.73	-1.80	-1.68	-1.00	-1.68	B9. i.	-1.04	1.00	-1.66	14.32	• : -	• -	-: -	1.1.	
27	187.00	17.1	15.61	-1.84	1.1.	-1.68	51.88	-1.60	99.1-	7.10	386.84	33.88	-1.5	1.1-	1.1-	-i. i	-1.0
64 K	196.00	2.84	22 .89	25.34	4.41	-1.00	-1.00	. i . l	10.1-	19.1-	-1.68	42.68	- : -	•	9.1.	-1.6	-1.6
1.0	186.00	2.15	26.98	-1.84	-1.88	-1.66	-1.88	9.28	8.58	-1.68	-1.00	-1.00	. :	1·1·	-1.6	9.1-	-1.8
]-	125.11	1.58	32.74	-1.10	99.1-	-1.66	99.1-	-1.66	-1.06	6.8	681.88	-1.86	286666.2	1.1.	9.1-	9.1-	-1.0
۵	128.66	8.	34.96	38,41	8.68	-1.60	-1.11	-	-1.66	-1.66	-1.06	-1.68	-1.0		9.1-	-1.0	-1.6
ĸ	231.11	61.1	41.13	43.85	6.43	-1.00	-1.60	-1.68	-1.68	-1.86	-1.0	114.32	-1.6		ē. [-	-1: 1	1.1.
۴.	181.183	15.1	41.62	-1.84	-1.11	-1.08	-1.6	-1.68	-1.88	-1.68	-1.88	84,38	-1.8	*.1.	9.1-	•: -:	-1:
Ø.	313.11	1.46	37.74	42.74	6.97	-1.66	189.58	-1.6	-1.00	7.18	663.88	66.88	9.1-	9.1-	•: i-	-1.4	-1.6
o	19.161	1.18	36.72	43.16	6.21	11.11	-1.8	-1.68	-1.00	- · ·	-1.00	73.12	9.00096	-1.1	-1.0	<u>.</u>	-1.6
2	174.88	1.59	33.78	46.94	68.89	11.1.	-1.6	12.48	9.21	7.18	754.88	72.68	1.	-1.6	-1.6	4. 1.	-1.6
13	281.11	1.57	37,29	44.13	7.19	-1.81	1.1-	-1.00	11.11	-1.00	-1.00	181.48	. i.	-1.	9.1-	• -	-1.6
4	272.91	66.1	34.35	-1.6	-1.0	-1.1	-1 -1	19.38	16.11	-1.69	-1.66	45.17	76886.4	-1.6	-1.0	-: -	

			•					•	TABLE 3 CONT.	TM		-			•	(au	
ST 40	VATER	SON	4	NCK	PC T.	P04	300	TSS	SSA	ă.	COND	CL	CF(F)	×	•) E	4%
	ien	1.76	33.31	-1.1-	-1.86	1.1-	-1.1	-1.1	1.60	6.9	634.11	-1.00		-1.6	-1 -	-1.6	J: I-
: =	211,00	1.38	31.16	35.85	5.36	-1.10	1.1-	-1.61	1.1-	-1.60	-1.66	98.1-	1.1-	1.1-	-1.8	-1.1	-1.
	13.00	4.2.4	31.10	37.72	6.8	1.1.	47.68	-1.1	-1.11	7.88	653.88	41.87	1.1.	-1.6	-1.6	1.1-	-1
	16.1	2.15	34.68	-1.0	-1.1	5.52	-1.1	- 15,21	13.18	-1.00	-1.66	38.48	-1.0	-1.0	-1.1-	1.1-	-1.8
	161.10	1.34	33.88	1.1-	-1.8	5.52	-1.0	-1.11	-1.68	-1.46	-1.98	48.41	1.1-	-	• · · ·	1.1-	9.1-
27	198.00	2.16	35.24	-1.0	-1.6	6.28	-1.81	-1.00	-1.86	-1.66	-1.86	37.78	• . ! .	-1.6	-1.0	-1.6	
83	281.00	16.	34.16		-1.1	5.92	-1.1	15,21	12.80	-1.88	-1.86	35.56	9.1-	-1	#· -	-1.	4. 1 -
æ	103.00	2.19	33.56	-1.0	1.1-	5.89	-1.00	10.1-	-1.68	-1.88	-1.88	36.48	-1.0	• · · ·	-1.6	-1.0	-1.6
v	115.00	3.66	35.84	58.62	7.17	5.71	-1.0	24.48	20.50	-1.00	-1.88	44.87	9.1-	-1.6	-: 1-	9. !-	-1.0
^	272.11	7:	35.88	-1.1	-1.86	5.29	11.1-	-1.66	-1.66	-1.68	-1.88	41.49	-1.0	-1.0	• I •	-1.6	-1:-
æ	223.11	1.97	35.55	52.14	7.28	8	66.88	-1.16	-1.66	7.38	635.88	46.14	e. :-	14.5	15.1	3.2	38.9
σ	197.11	1.20	38.36	1.1.	-1.00	8.8	-1.1	-1.00	-1.0	-1.00	-1.68	38.25	556666.1	-1.6	-1.8	-1.8	-1.1
**	247.11	1.84	38.97	11.11	-1.1	5.58		-1.68	-1.68	1.98	-1.88	35 .32	-1.1	1.6	9: 1:	•: i-	• • • •
<u>"</u> 24	324,11	1.44	31,58		-1.1	5.16	1.1.	11.1-	-1.48	-1.88	# 1 - 1 - 0	35.64	-1.	9.1.	-1.6	-1.0	-1.
4	459.11	96.1	33,38	1.1.	1.1-	5.51	1.1-	1.1.	-1.6	-1.55	-1.88	37.43	4. [-	9. [-	•: -:	-1.0	7.
51	379.88	6.73	26,31	-1.6	-1.06	4.57	-1.1	-1.00	-1.66	-1.86	-1.06	32.16	-1.0	-1.	-1.4	9.7-	1.1-
91	289.11	1.33	29.19	38.32	5.97	4.62	40.00	9.48	7.20	7.41	929.66	38.24	1656.8	-1.8	-1 -0	-1.	-1.0
1.7	301.68	98.	31,56	-1.1	11.1-	5.26	-1.86	-1.68	-1.88	-1.66	-1.69	36.53	-1.6	٠. ١٠	-1.6	-1.4	-1
2.6	257.81	1.85	28.75	36.38	5.37	5.62	-I.88	-1.08	-1.66	-1.88	-1.08	39.02	-1.0	9. 1-	9,1-	4.1.	-
21	1379.88	38.	64.9			4.49	-1.88	-1.68	99.1-	-1.88	-1.88	33,39	-1.8	• -	e. [-	-1.0	-1.
22	417.00	1.43	27.54	35.21	4.27	3.53	-1.00	-1.06	-1.68	-1.00	-1.68	25.72	1.66661	- -	1.1.	9. 1-	T
23	612.88	1.18	18.44	22.61	2.86	2.66	12,28	-1.66	-1.66	7.56	355.66	21,32	1.1-	-1.8	1 .1.	-1.6	-1.8
24	484,00	1.07	19.65	-1.1	-1.14	2.79	-1.88	-1.88	-1.00	-I . B B	1.00	28.28	-1.8	9. !-	• · ·	-1.1	-1
27	237.00	3.74	9.81	-1.1	-1.06	1.99	-1.46	-1.86	-1.88	-1.86	-1.60	18,12	1:1-	<u>.</u> .	4.1.	-1.6	-1.4
28	97.11	3.1	5.38	-1.1	-1.00	1.12	-1.00	-1.86	99-1-	-1.68	-1.68	18.98	-1.8	4· I -	-1.6	-1.0	
29	613,11	1.64	11.95	11,54	1.44	1.69	12.64	10.16	7.28	7.72	389.68	28.71	-1.0	•: -	-1.6	-1.4	7
3.5	611,11	1.37	7.88	1:1-	-1.16	1.49	-1.00	-1.88	-1.66	- I . 8 6	-1.00	16.23	8867.8	-1.6	-1.0	-1.	1.1.
£.	313,66	1.68	13.54	-1.1	-1.60	2.25	16.18	-1.88	-1.88	7.72	381.68	17.73	-1.	-	÷:	-1.1	
g L L	443.88	3,83	15.50	-1.1	10.1-	2,48	-1.68	-1.68	-1.66	-1.66	-1.88	33,57	-1.6	• -	4. I.	-1.6	-1:
W,	293.81	2.66	14.51	28.77	3.11	2.56	12.22	13.86	9.38	7.51	413.88	32,57		-	-1.		

髭	#. I -	-1.1-	-i . e	3.6	•1.	-1.6	• :-	-1.0	-1	-1.6	-1.6	-1.	-1.1	-:-	-1.6	-1.8	-:-	-1.1	-:-	-1.0	-1.1	-:	5.1	-1.	•••	-1.0	•:-	-1.	-	•: -
A O		-: :-	- :	21.5	-	.1.	-1.0	-1.6	-1.6	1.1-	+:		+ : -			-1.1	- : -	-1.4	-1.	-1.6	-1 -	-1.6	21.2	-1.	1.1-	-1.1	-1:-	-1	-:-	-
¥	-1	-: -	-:-	8,9	-1.	.	-1 ·6	-1.4	-1.6	9.1-	-I .	9.1-	-1.0	-1.0	1.1.	-1.8	-1.0	-1.0		.	1. I-	-1.	5.1	-1 -	-1.	-1.	-1.	-1.	-:-	- :-
SF(P)	9211.1	-1.1		1159.0	• · ·	54666.0	· :-	-1:	-1-	388.0	-1.6	-1.6	-1.0	-1.6	1550.0	-1.0	-1 -	-1:-	17601.0	-1.	-1 -	-1:	7	-:	-1.1.	-1.	7	•· -	-1.	-1.0
CL	31.96	35.63	39.29	31.94	34.87	48.96	39.56	38,93	36,38	36.96	36.91	37.86	36.13	34.48	31,22	38,38	30.18	-1.8	-1.0	-1.00	1.1-	-1.66	22 .34	-1.60	24.61	28.15	-1.16	31.36	22.94	26.99
3100	-1.86	474.88	-1.08	486.68	419.88	-1.6	-1.6	469.11	427.48	-1.68	-1.66	445.58	-1.00	438.98	11.11	-1.00	110.11	-1.88	11:11	412.80	-1.8	423.11	381,30	562.38	-1.68	-1.60	-1.8	426.98	389.10	453.68
ď	=	7,93	-1.8	7.69	7.73	-1.00	-1.80	7.62	1.71	-1.8	1.1.	7.38	-1.0	7,38	-1.6	-1.11	7.44	1.1.	1.1.	7.52	-1.00	7.22	7.43	7.52	1.1-	-1.0	-1.1	7.44	7.12	7.46
કક્ત	-1.8	-1.60	-1.86	2.51	-1.60	13.50	-1.60	-1.6	-1.80	-1.68	3.38	99.1-	-1.60	-1.11	18.19	-1.1	11.11	-1.1	-1.00	16.51	-1.86	-1.00	-1.1	1.1-	-1.00	-1.0	-1.1	-1.1	1.1-	-1.1
TSS	-1.60	-1.00	-1.88	3.66	-1.00	14.88	-1.06	11.11	-1.6	-1.1	5.70	-1.86	-1.1	-1.1	9.48	-1.69	-1.06	-1.80	-1.1	11.64	11.1-	-1.84	-1.1	-1.1	1.1.	-1.6	-1.1	-:-	-1.1	-1.6
305	-1.00	22.94	1.1-	11.11	3.79	-1.0		24.68	15.80	-1.86	-1.06	14.48	-1.5	15.61	-1.0	-1.0	21.30	-1.0	-1.8	21.94	-1.1	16.86	21.40	18.88	-1:1	1.1-	-1.1	:·:	19.51	22.54
P04	2,34	2.52	3 .35	2.81	3.11	4.58	4.88	3.89	2.89	-1.80	-1.00	-1.88	-1.66	-1.0	-1.84	-1.1	-1.86	-1.8	-1.6	-1.8	-1.88	-1.8	-1.8	1.1.	-1.66	-1.8	-1.6	-1.1	-1.1	10.1-
PC T)	-1.0	-1.1	3.68	-1.88	19.1-	-1.11	10.1-	-1.1	-1.10	-1.0	-1.06	1.1-	-1.8	-1.1	2.54	-1.1	-1.1	1.1-	-1.1	2.5	1.1.	-1.6	3.10	-1.0	-1.0	-1.0	4.86	1.1-	-1.1	-1.1
ECKO	-1.6	10.1-	21.96	-1.1	-1.1	-1.6		-1.8	-1.1	-1.0	-1.1-	-1.1	-1.1	-1.0	22.05	1.1-	-1.0	-1.1	-1.0	14,48	1.1-	1,1-	16,29		-1.1	-1.0	16,39	1.1.	1.1-	-1.1
NH 4	13,34	14.94	13.84	7.98	11.6	15.43	9.52	13.51	10.55	9.63	11,38	10.58	12.48	18.89	16.64	9.18	9.16	2.99	16.79	19.64	2.13	39.96	9.88	-	16.82	12.72	13,98	15.89	16.91	13.67
103	3.18	2.11	6.82	61.9	1.86	7.47	11.4	7.37	5.81	7.89	6.39	7.57	4.51	8.12	3.86	6.54	3.79	5.30	1.27	1.18	8.	2.47	2.55	-1.1	1.22	3.63	2.71	2,32	3.45	2.96
DATE WATER	217.00	251,11	151.11	235.06	:	58.64	81.11	116.00	137.00	36.88	10.00	91.16	87.88	84.11	124.11	116.88	37.60	108.00	171.00	172.00	92.66	219.00	152.00	157.00	:	8.8	111.61	173.00	162.00	161,00
DA TE	·	4	=	12	7	11	2	19	21	8	25	23	27	67 (V)	¥-	8	N	œ	o	14	=	12	1,	13	22	22	23	24	53	2 ¢

TABLE 3 CONT.

						TABLE 4	PERCOLA	LTE PROM PR.)	PERCOLATE FROM PRIMARY SECTION		3	MAY 1978					
DATE	*ATER	NG3	6F4	NCK)	P(T)	POA	300	TSS	755	ä	CCND	CL CL	CFCF	×	CA	ħ	«r 2.
50	1.	6.71	1.88	3.9#	1.68	-1.86	-1.96	-1.55	-1.45	65.3	287,68	37.52	#· ! -	-1.6	4.1-		7.1.
3500	49 . 8 4	16.91	3.94	-1.85	-1.8F	-1.68	-1.83	-1.88	-1.86	7.25	316.00	34.56	-1.6	e. I.	-1.	-1.4	-1.0
٢	:	1.27	2.25	-1.06	-1.60	44.	-1.64	-1.88	-1.66	7.15	327.88	32 .36	1.1.	-1.6	-1.5	9-1-	1.1.6
80	11.1	1.45	1.84	5.75	6.25	99.1.	4.18	-1.66	-1.6	27.7	343.66	31.64	36.8	-1.1	-1.1	-1.8	1.1.
<u></u>	125.11	2.88	6.49	1.75	15.0	-1.88	-1,88	3.18	2.78	7.35	378.66	32.25	-1. 8	-1.1		1.1.	-1.6
16	1.1	2.22	1.14	-1.88	59.1-	-1.38	-1.86	-1.88	-1.68	-1.86	-1.68	35.91	-1.8	-1.4	-1.4	9.1-	9.1-
2.1	8.66	1.93	₽.8€	10.1-	-1.00	-1.28	-1.60	-1.68	-1.88	7.38	443.02	35.22	1.1-	-1.6	¥	¥;•] -	J. I.
23	9.00	1.82	1.37	1.15	9.49	-1.66	1.28	-1.86	-1.68	-1.88	-1.62	33.22	t:	1.1.	-1.6	7.1.	•:-
28	9.8	1.26	8.38	-1.36	1.37	-1.08	-1.88	-1.80	- i . f f	18.1-	-1.66	33.86	ę: 7		-1.6	-1.6	7.1-
, -	25.88	19.67	2.85	-1.88	-1.82	-1.66	-1.86	99.1-	-1.80	7.25	328.88	23,42	-1.6	٠١٠	-1.5	-1.1	-1.5
٠	17.6	3.66	8.68	1.34	96.8	-1.64	16.1-	38. [-	-1.96	27.7	325,88	24.57	1.1	ş. j -	P. 1-	-1.6	-1.6
٢		8.63	6.64	-1.64	-1.06	-1.88	1.68	-1.83	-1.08	-1.66	19.1-	24.62	-1.5	-1.3	j. [-	-1.6	-1.6
=		£ ,55	69.0	£9. [-	-1.63	18.1-	-1.68	4.68	1.84	7.65	328,66	24.71	-1.6	-1-	-1.4	-1.5	-1.6
13	1.08	8.56	4.37	1 . 78	-1.88	96 ! .	-1.69	-1.62	-1.66	-1.84	-1.68	24.55	-1.8	-1.8	- ۱ ، و	-1.3	1.1.
<u>₹</u> 26	80.0	6. 8.	63.6	80.	35.36	34.9	-1.00	-1.8	1.1.98	-1.8	-1.00	24.57	£.1.	-۱.۴	-1.1	- ۱ • ر	-1.
<u></u>	8.8	8.48	6.18	15.1-	-1.88	38.1-	-1.38	-1.86	-1.66	-1.63	15.1-	24.55	J. 1-	-1.4	-1.	-1.6	-1.6
<u>e</u>	3.28	3.46	f.12	-1.84	-1.88	5 y • I -	-1.66	1 9. I-	-1.68	-1.5	-1.68	25.15	6.	1.1-	٠١٠	-1 ، ر	j. [-
<i>o</i> .	9.66	6.44	\$ 25	-1.69	-1.54	42.5	-1.83	-1.68	-1.88	7.55	3 45 . 9 6	25,31	· · ·	-1.6	-1.1	-1.6	B. 1 -
8	98.8	14.8	f.12	P . 78	4.36	29.1-	38.1-	-1.19	-1.86	-1.27	1.1.1	25,33	¥: 7-	-1.6	٠١٠،	-1.6	-1.6
21		4.45	5 6. 5	-1.06	-1.68	-1.62	f • 79	-1.86	-1.6	F2. 11	-1.66	25.41		-1.5	¥: 7	-1.8	£. ! -
22	99.0	14.9	8.38	-1.87	-1.02	-1 . ? 8	-1.06	-1.68	36.1-	-1.63	11.1-	28.52	٠, ١-	;·	٠١٠٤	ų· 1-	-1.5
20	: : :	B . 63	33.3	-1.69	-1.06	-1.98	26.1-	-1.88	-1.1.	13.1-	22.1-	32.28	J. I -	-1.0	-1 • 6	-1.8	-1.
۲۰ ۲۰	88.9	13.9	94.4	33.1-	22.1-	63.4	-1.83	-1.86	-1.36	7.45	410.67	31,36	-1.6	-1، ر	-1.1	-1.6	- 1 • 6
26	88.	8.71	20.3	13.1-	-1.00	13.1-	-1.83	3.46	2.19	-1.02	-1.66	24.48	-1.6	-1.6	£* 7-	¥. 1 -	1.1
29 A UG	42 43 63	1.62	1.12	6.74	35.5	1.86	-1.66	-1.86	-1.80	-1.96	-1.00	27.76	-1.0	-1.3	÷	-1.6	1
Ø		£ .94	1.17	1,30	13.67	63.1-	-1.82	38.1-	-1.68	7.75	642.88	34.87	-١٠،	e. I -	e	e. 	-1.6
21	54.89	0.74	9.36	-1.88	30.1-	1.28	-1.6f	-1.08	-1.66	-1.68	-1.84	38.81	-۱۰۴	J. I.	-1.5	-1.	·: -
31	5.88	8.36	9.86	-1.68	-1.08	-1.88	3.18	-1.98	-1.38	7.55	423.00	34.41	3.1-	3.1-		٠١-	٠١٠
51	13.86	4.37	8.8	3 J · I -	. 1 . 8.	-1.03	-1.63	94.1-	-1.96	-1.83	34.1-	2K.55	-1.0	8. 1-	÷.	-1.0	·.
24	9.8	18.	£ ,22	1,39	4.25	-1.63	33.[-	1.53	6.46	7.45	647.62	23,23	٠١.٩	-١٠٤	- ۱ ، ر	٠١.۶	e: - 7 -
2k	17.88	\$ 21	83.6	-1.63	-1.63	34.1-	-1.73	-1.26	-1.63	-1.68	-1 • Cf	27,83	3.1-	٠. ١٠	e:	-۱۰ز	

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The state of the s

									TABLE 4 CON.	7.							
PATE	WA TER	133 133	A HZ	MCKO	P. T.	POA	300	TSC	SSA	E.	Gran	J J	SFCFD	×	CA A	£	4
	1			-1.89	63-1-	82.1-	# 2 · I -	1	-1.86	-1.66	-1.84	32,43	-1.3	-1.6	1.1-	-1.2	• I •
SEPT		25.											u.	-1.6	-1.9	5. I -	:• -
-	17.0	3.18 8.18	.23	-1 .fe	33.1-	21.	200	9.	3 6 6 1	20.	34.3/6	1 2.5 2.2	;	•	9-1-	-1.6	٠١٠
۴-	1.18	3,85	f.13	1.25	f .45	-1.86	-1 -63	29.47	39.8	8.48	557.88	25.45	-i-				7.1-
ø	5.88	3.66	4.19	33.1-	-1.63	-1.62	-1.38	-1.88	-1.66	-1.00	-1.02	24.68	-1.	F.	· ·		
=	89.1	45.	6.12	9.1	JJ. 1-	-1.82	99. !-	1.1-	-1.62	7.99	532.08	36.27	-1.6	-1.0	¥.	٠. ١	a '
: 5	25.20		t.,	1,13	6.13	1,68	-1.60	-1.98	-1.68	7,60	453.00	4f .R3	-1.6	-1.8	- I	6. 1-	
: :	98	94	94	80	€ 9 - 1 -	- 1 - 2 2	3.8	99.1-	-1.88	-1.26	-1.68	35,18	2869.8	9.1-	1.1.		·.
2 :						66.1-	69.	98.	e:	-1.63	98.1-	35.86	-1.5	-1.6	-1 ، د	-1.6	-1.6
9 :	26.91	B 2		, ,			6.	8	3	. 60	544	81.88	5.1.	1.	-1.8	-1.0	•; -
m C	3 6 F	0		- E		e. e.	6. 6. 1	95.4		6.	98.1-	25.97	9.1-	-1.5	-1.6	-1.8	*:
22	13.51	25.	7				. to	, ,		80.	35 055	51.56	9.	-1.8	1.1.	-1.3	-1.6
27	6.63	6.47	:a (6 4 I	33.11					- 1	20 20 20	71 (1	-1-	e. 1-	-1.1-	-1.6	٠١٠.
26	14.36	F .53	22.	2	2	32.	a	9 .				2 4	-	3·1-	1.1.6	-1.6	-1.5
29		e2 *\ *	4.94	1 . e			.1.	1 . 1	34.	-1.66	a	22.49			.1	- I -	7
£ (28.9	8.45	6.63	2 y • 1 -	-1.64	1 . P. E	1.74	-1.68	.1.	-1.66	-1.63	26.56 5.56	<u>.</u>	: :	; -	<u>ئ</u> 	-1.6
<u>.</u> .	26.33	89.6	14.1	f. 63	P.24	-1.86	-1.00	-1.86	-1.93	-1.36	-1.86	11.72	-1 ·		· ·		
4	14.88	7 5. F	1.38	1.64	6.17	-1.88	-1.82	-1.63	-1.88	7,95	265.88	18,84	e - I -	æ. 	-1-	- ·	: :
w	12.00	55	8.38	16.1-	-1.66	-1.68	-1.86	-1.68	99.1-	8.26	343.00	26.48	-1.6	-1.6	J. I.	-	
=	8	12.	F.12	1.29	61 61	3 g* I -	-1.60	-1.08	-1.88	-1.66	-1.36	12.52	-1.	-1.6	· · ·	e. [-	
	4	9	6.37	13.1-	-1.26	-1.66	6.43	-1.68	-1.86	7.95	315.88	17.12	-1.6	9.1-	-1.9	I • R	
: 9					5		าย. 1 -	-1.69	-1.34	8.05	264.68	5.68	3.1-	-1.6	1.1-	9. 1-	J. I.
2 2	-		1, 1,	88.9	80	2	99° I -	8 - I -	-1.63	7.55	332 .66	6.11	-1.6	-1.4	-1.6	-1.6	٠١٠
: :				-	83.	80-1-	93.1-	9.6	-1.62	8.18	367.66	5.57	-1.9	-1.	e	-1 ·	1.1.
4 I				5		38	33.1-	-1.50	6. 6. 1.	-1.83	-1.66	16,35	ta• □	-1.0	-1 -0	9·1-	-1.6
- b		44. 9	2.54		38.1-	-1.86	38.1-	-1.60	-1.66	-1.08	1.00	25.62	-1.8	-1. ⁸	-1-	E. I -	-1 · t
, .		, v	-	6	100	9.1-	-1.66	-1.68	-1.00	-1.66	-1.20	34.61	-1.6	-1.4	-1.0	-1.	
NOV.		3		9, 11		60.11	-1.63	-1.66	11.1	-1.63	-1.68	25 .44	°1-		-1.6	-1.8	3.1-
	;			- 1			-1.68	4.2 \$	6,63	8,83	427.58	-1.70	-1.6	-1.6	-1.8	-1.6	٠1.
, ,	:				-	5	6.9	8 1		£7.	417.66	27.82	9.1-	-1.6	e	٠١-	
- 0			7		33				-	# E	e.	9	9.7-	-1.6	-1.6	-1.4	J
۰,		ה מ מ			-			6.1-			99.1	: e:	1.1-	-1.3	-1.6	-1.0	•; ~
:	2 4 6 7			3361			30.1-	19.1-	16.1-	-1.66	11 00	1 . 1	-1:-	-1.5	- ۱ ، ا	-1	3 · I ·
				•	•												

				TA	TABLE 5 W	ASTEMATER A	2	SECONDARY SECTION	_	17 MAY 1977	- 31 MAY 1978	878					
2A TE	¥ 753	3	ž	NCK)	PC T)	20	800	TSS	vss v	E.	COND	C.	CFC	×	CA	S.	¥¥.
7A 7 - 1	319.08	-:-	27.11	33.70	8.24	-1.1	-:-	= -	-1.1	7.22	549.11	45 ,35		-1 -	-1-	-1.	9. ! -
<u> 81</u>	335.00	16.0	30.20	37,54	8.94	-1.1	. i.	-1.1	-1.1	7.75	542.11	37.15		7		-:	-1:
23	312.00	:	38.87	35.18	8.28	-1.1	-1.1	· · ·	÷	6.47	627.11	34.57		7	-:-	•	-1:0
24	283.00	1.12	29.82	33,29	1.67	-1.0	:	=	-1.1	6.25	628.11	33.75	-1.		-1.0	-1.6	-1.6
23	161.00	6.33	-1.0	38,18	7.57	-1.86	-1.5	-1:1		69.9	684.88	31.86	-1:0	-i ·	9.1-	-1.1	-1.
36	122.11	61.19	31.11	31.68	7,32	-1.1	-1.	-1.0		-1:1	-1.1	37.13	-1:	-1.1-	-1.5	-1	-1.6
31	326.08	::	35.07	36.69	8.85	-1.1	-: -:	93.68	\$5.6	7.35	65.11	39 .35	-:-	7.7	-1:-	-	-1 :
JONE	237.00	::	31,92	33,84	6.68	-1.11	1.1	1.1-	-	7.55	684.11	36,36	-:-	-:-	-1.	-1.	-1.6
ø.	297.68		30.76	-1.1	1.1.	-1.1	-1.	-1:1	-1.	7.35	529.68	34.02	7:	7	-1.6	-1.	-i -
v	263.11	4.	32,93	-1.1	-1.1	11.11	-1.60	1.1.	-1.1	7.58	584.68	35.95	-1:	-1	-1.6	-1.4	-1.0
80	279.00	1.62	31,54	-1.1	7.12	1.1-	17.16	-1.00	1.1.	7.55	389.08	35 .35	22861.1	•· ·-	-1.0	-1.1	-1.6
13	256.11	4.14	36.47	1.1-	-1.00	1.1.	1.1.	-1.0	1.1.	7.25	593.86	39.82	7.	-1:1-	-1:-	-1.6	-1.6
<u></u>	268.01	41.0	30.61	-1.0	-1:	-1.80	-1.88	132.80	116.80	-1.1	-1.1	37.05	-1.1	13 ,3	16.6	2.7	45.8
<u>n</u> 28	239.11	92.	28.68	28.53	6.34	::-	99	-1.1	1.1.		-1.1	34.51	1.1-	-:-	-1:	-1.6	-1.
<u>v.</u> }	327.00	1.66	27,25	-1.1	-1.1	-1.84	-1.1	-1.0	-1.6	-1.10	-1.1	34.24	4.1-	7	-:	1.7	-1.
21	323,00	1.35	31,83	11:1-	-1.00	11.1-	-1.1	-1.88	11.11	7.48	554.00	37.45	9.] -	9.1-	-1	-1.	-1.6
22	382.88	1.22	34.49	33.21	6.14	19.1-	8	-1.11		-1.86	-1.6	36.19	27000.0			-1.	-1.0
23	291.00	::	32,25	1.1-	1.1.	1.1.	-1.0	-1.8	-1.1	-1.1	-1.08	35.78	-1.1	7.7-	7:7	-1.1	-1.1
23	319.11		27.77	1.1-	-1.1	-1.8	-1.1	16.81	71.28	-	-1.66	42.18	-1.	-:-	•· ·-	-1.	-1.
28	199.66	3.91	28.11	-1.	-1.6	-1.88	1.1.	-1.1	11.11	-1.1-	-	42.89	-:	-1.6	-1.1	-1.6	-1.6
3.5	419.11	1.41	19.45	23.67	5.11	-1.01		-1.0	::,	7.55	448.68	27.06	7	-1.	1.1.	-1.4	-1 •
30Lt	231.00	::	25,32	-1.16	1.1-	1.1.	- -	-1.1	-1.1	7.48	414.88	27.16	350600.2	-1.0	-1:-	4.1.	-1.6
ĸ	362.11		21.92	25,36	4 .39	11.11	-	-1.1		-1.1	-1.00	25.61	7	-	-1.0	-1.0	-1.0
7	361.00	1.15	22.79	-1.50	-1.1		29.11	-1.1	11.7	-1.1	-1.00	26.96	42 868.8	• • • •	-1.0	4.1-	-1.6
=	272.11	6.25	23.65	-1.5	1.1.	-1.1	-1.	36.22	24.44	7.45	463.11	26.15	-1-	-1.1	-1.6	-1.0	9. I -
13	256.11	1.51	18.14	21.55	5.14	-1.16	-:-	-1.1	11.11	-1.80	-1.80	26.68	-1	1.11	7.9	8.1	45.2
14	332.00	1.56	18.62	1.1-	11.11	-1.8	1.1-	-1.1	1.1.	-1.80	19.1-	26.19	1.1	-i.f	-1.6	-i.e	-1.0
¥.	345.11	1.37	16.48	-1.1	-1.06	-1.98	-1.0	-1.5	-1.00	1.1.	-1.66	26.93		-1.1	-1:-	-1:-	-1.6
81	333.00	2.56	23.78	-1.1	-1.00	-1.88	-1.1		.1.	7.84	482.11	23.47	7.7-	-1:0	-1		-1.4
19	327.60	1.97	24.64	-1.68	-1.88	-1.60	-1.08	-1.00	11.11	-1.80	-1.88	24.45	7666.6	1.1-	-1.4	-:-	• I •

Colombia.

£0.2	¥.	NCKO	(1)á	40 e	ວຍ	15.5	Sŝ	ž.	2400		CF(F)	×	CA	ž	73
25	25.62	-1.00	-1.60	1:1-	23.11	= -	-1:11	-1.0	=:-	31.88	6. 1-		-1	-1:-	7
24	24.01	26,35	5.74	-	-1.1-	1.1-	11.1-	-1.0	-1.1		-1.6	-1:-	-1.0	-1:-	7
8	22.22	-1.1	1.1-		-:-	-1.00	-1.1	-1.6	-1.1		-1:-		1.		7
8	32	-: -	÷.:-	-1.1	-1.1	-1:1	· i · 0	-1.0	1.1.		-1.1	-1.4	-1.	-1.0	7
Ø	4.73	-:-	-	-:-	-1:	14.88	13.21	1:1-	-1.1		J: [-	-:	÷.	-1.0	7
N	6.37	27.53	7.68	-1.1	-1.1	-	-1.1	7.65	487.11		9:1-	-1.0	-:-	-1.4	7
81	1.97	1.1.	-1.1	-1.1	-1.1	7	. ; ·	7.35	911.00		-1:-	-1.6	•. -	-1.6	-
~	6.19	27.69	7.86	-1.1	-1.1-	-1.0	-1.1	11.1-	1.1-		-1:1	-1.0	-1.6	-1.0	-
	25.16	27.11	6.70	-1.10	-1.6	-	-1:1	7.55	494.88		- -	12.4	7.9	2.4	45 .2
	17.96	1.1-	11.1-	-1.1	-	÷:	-1.1	-:-	1.1.		· · ·	-1:	-1.6	-1.6	1.1.
	8.98	11.96	5 .29	-1.00	45.11	-	1.1-	7.30	361.00		-	7.	-1.6	.i.	-
	12.66	-1.0	-1.1	-1.1	-1.1	-1.6	-1.0	1.1-	1.1-		-	-: -	-:-	-1.6	-
	11.81	-1.1	-1.1	-1.0	-	14.93	8.8	7.25	394.11		9: ;	1 .1-	-1.0	-1.	-
	14.29	13.98	4.53	-1.1	-1.11	-1.0	÷	-1.1	1:1-		•:	-: -	-1.1		-
	8.94	-:-	-1.00	<u>.</u>	-1.8	11:11	-I.8	-1.0	-1.60		-1.0	-1:-	-1.1		7.
	8.94	11.12	5,31	-1.	44.00	-1.6	-1.6	7.20	373.88		36.6	10.7	8.3	2.1	37.8
	9.16	10.69	5.12	-1.0	1.1-	-1.1	7.48	6.95	487.88		1.1-	7	-1.8	9.1-	-
	17.71	-1.1	-1:1	-1:	-	-1.1	-1.0	-1.5	-1.1		1.1-	-	-1.6	-1:-	-
	19.62	-1.1	1.1-	-1.1	÷:-	-1.6	-1.1	7.19	451.81		1. I.	-	-1.0	-: -:	
	8.43	11,54	4.10	-1.0	25,11	-:-	1:1-	-1.00	11.1-		:	-1.6	9.1-	-1:-	-
	11.18	-1.6	-1.1	-1.6	-1.1	-	-1.00		-1.1		•:-	9: -	-1.8	1.1	-
	6.21	7,59	5.69	=: :-	-	-1.1	10.1-	7.63	517.00		-1.1	-:-	-1:	-1	7
	4.25	-1.1	-1.1	-1.0	-1.10	-1.1	-1:0	-1.	-1.88		j: -	-1.	-i ·-	-1.0	-
	3,27	-1.1	-1.00	-:-	·:-	-1.1		7.45	518.86		•:-	-	-1.6	-1.0	-
	11.11	-1.86	= -	-1.16	-:-	-1.1	-1.88	-	-1.1		-1.1	· ·	-:-	-1	7
	14.21	17.50	5.14	-1.6	54.11	-1.66	. i.	-1.84	-1.00		1.1.1	-1:1	-1.4	-1.1	-1.
	15.31	18.18	4.89	-1.8	-1.1	-1.0	-1.1	7.54	384.66		••	12.0	8.5	2,5	33.7
	22.57	-1.88	-1.66	-1.10	-1.1	-1.11	-1.6	7.85	414.00		-:-	 	-:	-1.	-
	13.42	16.86	5.37	-1.8	72.60	-1.0	-1.1	7.65	416.91		-: -	9.1.	-1:-		-1.6
	57.51	18.52	4.54	-1 .66	-1.0	-1.1	-1.61	6.86	455.11		-1.0	-		-1.0	-1.4

TABLE 5 CONT.

Ξ.	32	7	7	7	7	Ť	7	7	. .	÷	7	-	÷	-	;	;	7	;	-	7	7	7	7	-	7	7	7	7	-	
g	3.5	-1:	-: _! -	7	1.1-	-1.1	-1.6	9.1-	2.4	-1.0	-1.0	1.1		9.1.	9.1.	-1.0	-1.0	-1.6	-1.	-1.6	9.1.	-1.0	-1.		-1.6	•· I •	#· I -	-1:-	.1.	-1.6
80	8.5		-1 -		-1:-	-1:-	1:1-	9. [-	9.6	-:-	•: -	-1.6	-1.6	-:-	-1.0	-1.6			-1,0	-1.0	-1.1-	-1.0	9.7-	9.1-	1.		9. 7-	1.1.	#. ! -	-
×	0.1-	-1.0	-: -:	•1.	•: 1-	-:-	· i ·	-1.0	12.9	-1.6	-1.6	-1.6	-1.6	-1.6	8. I.	-i.	i.	-1.0	4. [-	:	-1:	•:1-	•	7:-	• • 1 -	•:1-	9.1.		• · ·	•. 1-
CF(F)	-1.1	-:-		-i.e	7	-i.	7: 7-	9.1-	Đ. I.	1.1-	-1.1	•	₽. ;-	9.1-	#. 	47.8	-1.	-1.0	-1.6	-1.1	-1.1	1.1-		-1.1	-:-	-1:-	-1.6		1.17	-1.
C	28.66	33.97	34.61	35.62	34.51	34.82	33.66	-1.80	33,43	1.06	11.68	-1.66	34.08	-1.66	-1.01	-1.08	38,97	40.92	40.95	-1.68	36.56	35.88	37.18	-1.1	-1.1	37,13	36.61	37.69	43.64	41.47
CONE	756.88	531.00	1.1-	-1.08	-1.68	-1.00	-1.00	554.88	\$66.11	-1.66	-1.68	10.1-	473.88	1.1.	-1.66	-1.68	-1.1	-1.00	643.00	19.1-	-1.1	1.1.	563,00	-1.00	-1.0	1.1.	583,00	-1.8	567.88	542.11
H.	8.8	7.65	-1.66	-1.88	-1.6	-1.8	-1.88	8.85	7.65	-1.00	-1.61	-1.00	7,55	-1.66	-1.1	11.10	-1.99	-1.11	1.98	• • •		1.1.	7.84	-i . i	11.1-	-1.1	7.45	11:1-	7.15	7.75
SSA	-1.9	-1.51		-1.0	-1.88	-1.88	-1.60	14.78	-1.6	-1.6	7.28	-1.1	-i.i-	-1.88	8.16	-1.1	-1.88	. i . 0	-1.1	16.5	-1.11	-1.0	-I .I-	3.11	1.1	1.1.	1.1-	-1.11	13.91	14.10
TSS	-1.6	-	-1.1	-1:1	-1.1	-1.66	11.1-	16.48	1.1-	-1.88	9.28	-1.00	11.1-	-1.1	9,11	-1.1	19.1-	-1.6	-1.1	8.51	11.11	1.1	÷.	6.28	۲.			:· ·-	16.50	17.48
300	1.1.	32.11		1.1.	11.10	-1.1	.1.	-1.1	-1.06	-1.66	69.11		1.1-	÷.	73.00	-	-1.00	-1.1	1.1.	1:1	-1.8	-	-i · i	-	-1.8	-1:1	1.1	9. 7	1.1-	-
P04	-1.6	1.1-	-1.10	-1.86	-1.0	10.1-	-1.1	-1.6	1.1-	-1.68	-1.0	-1.6	-1.8	-1.88	-1.0	11.1-	1.1-	-1.1	-1.1	-1.6	- 1.1	-	=:-	-1.1	-1.8	-	=:-	-I .	1.1.	1.1.
P. 13	5.25	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.1	: -	5.86	5.53	1.1.	5 .23	-1.1	1.1.	-1.1	-1.1	-1.1	8.49	-	7.69	::	-1.	::-	: ·	7.15	-1.	- i . i	3.36	-1.1
KX	-1.6	= ;	-1.1	-	-	1.1-	÷.:-	• • •	-1:1	27,32	15.52	-1.1	11.76	-1.1	-1:	-1.1	-1.1	-1.1	40.95	-1.0	34.65		-1.1	-	-1.1	35.15	-1:	-	36.17	1.1.
4 HZ	255.95	28.78	:·:-	29.95	27.54	28.98	29,26	15,48	38,35	31.85	31,52	33,32	13.74	13,25	29.92	28.13	28.11	33,55	35.77	-	32.28	29.11	27.62	-1.6	-1.1	39.64	28.76	32.11	27.62	28.36
103	2,31	2.3	-1.1-	1.89	7.18	14.16	8.16	5.32	6.24	6.15	88.52	5.14	21.51	20.79	27.11	4.73	5.16	4.87	2.85	-1:1	3.46	2.36	2.65	-	-:	2.17	3.16	3.89	4.76	2 . 42
WATER	330.00	227.00	374.88	368.88	212.00	212.00	155.00	290.00	384,88	251.11	321.11	301.08	214.88	297.00	314.86	273.00	319.11	318.06	131.88	278.00	123.00	239.01	310.00	336,10	319.11	330,66	315.00	311.00	285.11	385.88
74.75		92	12	28	31	<u>Ş</u> -	0	m	7	œ	σ	=	4		<u>.</u>		8 2	51	22	23	2 (4	26	58	3 EC	-	60	•	9	no.	ď

TABLE 5 CONT.

2		Š	į		į	ž	;	-	TABLE 5 CONT.		: :	ć	(;	×	4	ဋ	47
	1	Sox		PCK.)	2	8 . L	305	- 1	9.55		1 4 3 3 4	7					
13	315.00	96.1	28.62	31.17	5.44	-	= -		==		592.11	38,38	- :	•	• -	••• ••	*• -
<u>-</u>	346.00	2.14	25.52	34.18	9.98	÷. :	-1.1		38.70		554.11	-1:		•: -:	-: -:	÷:	-1:
<u></u>	317.08	2,39	22.40	1.1.	-1.1	-	1.1.		-1.1		-1.1	79.48	24666.6	-i -	•: -	-1.	-:
2	321.10	1.99	20.76	1.1.	-1.1	-1.1	:·:-		-1.1		. i.	57.94	-1:-	-1.6	-1.1	-1.6	-
21	11.02	2.19	23.86	24.98	4.82	-1.			-1.1		-1.6	38.92	-1.6	• - 1 • •	-1.0	-1.4	• • •
22	316.11	1.17	26.68	1.1.	-1	-1.1	47.88		-1.1		528.88	1.1-	-1.1	9.1-	-1.0	-1.0	-1.6
23	191.00	1.29	29,33	1.1.	1.1-	-1.1	-1.1		-1.04		-1.	-1.1	-1.6	ē. i-	-1.6	-1.6	-1.6
82	211.00	4.19	27.79	26,23	6.14	-1.0	-1.1		-1.1		-1.1	-1.1	9. !-	• i • 6	1.1-	-1.	-1-
3.5	269.11	3.76	31,25	28.45	8.8	-1.1	-1.1		38.88		496.88	33,37	•. ₁ -	9. 1-	-1:	-1.0	-
34.15	259.00	11.0	36.51	40.78	9.39	1.1	-1.00		-		1.1.	41.47	•: I-	-1.6	-: -:	-1.8	-1.6
4	272.11	9.	38.11	45.58	88.	-1.8	132.66		136.00		615,00	42.64	-1.0	-1.6	÷. i-	-1.6	-1.6
•	321.10	69.1	37.48	11.1-	:·:	1.1.0	91,54		-1.1		661.88	42.67	6400.0	-1.6	9.1-	-1.6	-1.6
v	295,11	18.	37.75	-1.6	-1.1	-1.00	127.88		-1:		-1.00	42.68	-	1.1.	-1.8	-1 . f	-1.6
Ξ	367.00	6.45	21.67	1.1	-1.1	-1.01	-1.8		8.28		416.11	32.94	-1.0		1.	-1.1	9· 1-
21	329.11	1.47	24.33	26.72	3.84	1.1.	17,25		-1.1		462.08	48 .33	1.00	-1.6	•· ·	-1:-	-1.6
13	161.11	1,43	25.77	-1.1	-1.10	-1.11	27.88		-1.0	7.28	633.88	68.84	-1.	-1	-1.6	-1.6	-1.0
16	336.11	95.1	31,22	33.85	6.81	-1.80	-1.04		-1.1		-1.66	75.28	-1.	-1.6	÷. ;	-1.4	-1.6
1.7	431.11	. 4	31.21	1.1-	-1.1	-1.0	-1.0		35.58		-1.66	82.96	5160.0	-1.0	-1.	-1.4	-1.6
8	337.88	1.32	32.62		-1.86	-1.00	51.00		-1.8		789.86	73,34	-1.	-: -	-1.	-1.6	9.1-
e. Ci	248.11	9.31	36.49	39.77	7.78	-1.1	-1.1		-1.11		-1.68	99*99	-1.6	• · ·	-1.6	-1.6	-1.6
63	284.11	1,35	37.81	41.87	8.24	-1.1	-1.0		11:1-		-1.1	88.80	8. 9022	-:-	-1.0	÷	-1.0
2.4	301.00	15.1	38.41	39.85	1.54	-1.1	-1.1		21.11		10.1-	121.18	-1.6	J. I.	-1.	1.1	-1.6
\$2	348.11	1.24	37.31	-i.i	-1.	-i.t	57.66		-1.1		822.11	87.76	- -	-1:	• : !-	-1.	-1
v ,	368.11		14.47	-1.1	÷.1-	1.1-	1.1.		-1.68		-1.66	25.88		1.	-: -	-1:-	-1:-
27	314.00	1.13	14.49	-1.1	-1.1	-1.1	52.80		-1.00		344,68	10.69	-1.0	-: -	1.0	-1.6	-1.
3.2	363.66	9.36	20.91	21.64	3,58	11.11	-1.0		-1.0		-1.60	41.64	-1-	-:	-1.8	- :-	-:-
3.1	415.11	9.18	23.15	-1.1	-1.1	-1.1	-1.1		8.94		-1.1	-1.01		-i -	-	•· -	
<u>م</u>	312.00	9.36	31.84	31,39	5.26	-1.1	<u>.</u> .		-1.98		1.1-	1.1.	•: -	-1.8	g. [-	-1.6	9 · 1 ·
۴,	234.11	1.29	35.63	36,86	5.55	-1.40	57.75		-1.08		-1.1	39.43	-1.0	-1.6	-1.6		-1.1
ų	518.11	1.57	34.86	36.16	4.53	-i .	-1.1	-1.11	-1.68		-1.66	151.68	-1-	•:-	-1.1	-1.6	-1.4

								•									
DATE	WATER	NOS	₹	NCK)	P.(T.)	PO¢	300	153	VSS	H	CONP	CL	CF(F)	×	CA	P	¥.;
7	239.66	4.59	33,50	= -	1.1-	10.1-	-1.E	-1.10	-1.54		1.10	144.88	9.1-	-1.8	-1.0	P. 1-	4.1-
6 0	441.11	6.73	31.63	35.85	4.72	-1.1	156.81	-1.99		7.68	839.00	123.64	1	1:1-	•	1.0	-1.6
ø	242.11	1.79	31,38	-1.5	-1.1	-1.0	1.1.	-1.00	-1.8	11.11	-1.00	189.24	21.1	-1.	-1.0	1.1-	-1.0
-	283.00	6.75	31.46	35,55	4.85	-1.6	1.	14.10	7.78	7.15	173.88	92.18	· · ·	•: -	9. I -	-1.6	-1.4
13	346.00	4.48	32.66	36.44	5.14	-1.1	-1.	1.1.	14.1-	-1.8	-1.88	79.58	-1:	1.1-	•	.1.	-1.1
•	321.11	15.1	33,46	-1.0	-1.1	-1.66		89.6	7.48	-1.00	19.1-	69.22	:	1.1-	1.1-	-1.6	-1.
ن	301.08	9.16	33.61	-1.0	-1.0	-1.1	-1.1	-1.00	-1.00	7.28	645.88	1.10	-1.	-1.0	1.1-	P. 1-	1.1-
11	386.88	•••	34.30	38.16	19.6	1.1-	1. i.	-1.0	-1.80	-1.66	-1.66	-1.00	•. i -	-:	-1.1	-1.6	-1.6
Ç.,	215.11	89.1	33.18	37,15	91.9	-1.0	22.60	-1.1	-1.86	7.14	687.88	46 .35	4.1-	•. !-	-1.5	-1.6	-1.4
	312.00	6.73	35.88	1.1-	-1.1	6.18	1.1-	9.34	1.68	-1.11	-1.00	38,61	-1.6	-1.0	6.1-	9.1-	• :
54	384.88	27.	38.84	-1.1	::-	6.68	-1:	99. :-	-1.1	-1.60	-1.1	37.91	6.1-	9. I-	1.1-	9.1-	9.1-
27	319.00	1.7.1	39.64	1.1-	-1.0	7.00		-1.6	-1.88	-1.86	-1.00	37.85	· · ·	1.1.	-1.6	-1.6	-1. f
85 8 87 8	356.00	1,35	#.#	1.1-	1.1.	7.12	-1.1	13.58	16.36	10° I-	1.1-	36.98	4.1-	-1.6	-1. 6	-1.0	-1.0
31	156.00	15.1	36.84	-1.1	-1.1	96.9	: :	1.1-	-1.0	-1.1	-1.00	36,39	٠: -	-1.8	-1.6	-1.0	1.1.
<i>پ</i>	188.84	27.	36.10	39.11	\$.98	5.58	-1.88	12.68	9,00	-1:	-1.66	44.33	-1 · B	9. I-	-1.6	-1.6	<u>.</u>
7	353.88	19.1	36.73	1.1-	-1.1	5.78	-1.1	-1.00	10.1-	-1.10	-1.08	43.29	-1.0	4. i.	4.1-	9.1-	-1.0
80	321.00	19.1	36,37	49.14	6.49	6.83	28.11	-1.08	-1,1	7,93	625.11	42.56	9. 1-	13.6	9.1	2.6	43.5
o	325.66	19.1	37,35	-1.10	-1.	6.61	-1.00	-1.06	16. I-	-1.00	-1.08	41.28	17.8	-1.4	-1.6	-1.0	-1.6
=	327.00	174	38.02	-1.00	1.1-	6.82	-1:1	-1.69	-1.00	10.1-	-1.00	38.98	a. 1-	1.1-	-1.6	-1.0	9. {-
13	317,00	3,45	37.46	1.1-	-1.80	6.12	-:-	-1.69	-1.00	-1.66	-1.88	37.21	9.1-	1.1-	-1.1	٠1.	9.1-
.	313.88	12.2	48.35	-1.1	-1.00	6,33	1.1.	-1.86	-1.60	-1.88	-1.68	36.41	e. !-	-1.6	e- 1 -	-1.6	4. I -
15	316,11	1.68	37.82	41.18	6.87	6.12	1.88	-1.00	11.1-	-1.66	-1.68	33.21	-1.8	-1.6	-1.8	-1.8	-1:
16	382,11	1.45	36,29	43,26	7.13	6.87	14.88	3.18	1.98	7.89	581.00	31,22	9.	1.1-	-1.6	4. 1-	÷. [-
7.1	311,11	1.53	39,53	-1.00	-1.88	68.83	-1.88	-1.86	-1.68	-1.06	-1.88	33.17	- i . B	-1.	-1.	-1.6	-1.1
28	311,11	3.74	62.23	44.85	7.18	7.43	-1.88	-1,66	-1.96	-1.88	-1.04	34.31	-1.0	-1.0		-1:	-:-
12	334,08	1.48	51.24	-1.00	-1.86	7.57	19.1-	-1.88	-1.68	-1.60	-1.80	35.47	- i -	-1.6	-1.0	-1:-	-1.6
22	360,00	19.1	48.16	48.47	6.51	6.95	1.1.	9 9 · 1 -	-1.60	-1.00	-1.00	31.84	95.8	e. 1-	1.1-	1.1.	7:7-
23	368.11	1.54	37.56	34.46	4.36	5.86	99.6	-1.66	-1.58	16.7	583.00	28.67	- -	-1.0	-1.	• · · ·	-1.0
54	365.11	1.51	24.39	-1.60	-1.00	3.67	1.1-	-1.88	-1.60	-1.00	-1.66	25.78		-1 .6	9. 1-	9. 1-	-1.6
53	372.81	9.53	24,39	26,32	2.18	2.63	4.48	22.58	3.38	8.63	448.88	25.67		-1.6	•:-	-	•

DA TE	E WATER	NO3	89.4	NCK)	PCD	P04	300	ISS	VSS	на	CORP	J.	0F(F)	>	e U	ę:	4
80	353.00	9.46	20.98	3.1.	1.1.	3,29	-1.1	11.1-	-1.11	1.1	11.11	27,25	1.1	1.1-	6.1-	1,1	-1.0
3.0	296,66	19.4	18.78	-1.1	-1.1	2.85	7.24	-1.11	-1.00	8.11	433.88	29.41	9.1-	-1.0	9.1-	-1.6	-1.6
: 4	416.11	1.1	19.61	-1.0	-1.4	3.69	-1.86	-1.00	-1.89	18.1-	-1.61	35,37	478.8	4.1-	9, 1.	9.1-	-1.6
•	421.14	1.1	19.61	25.66	4.12	3.34	16.11	9.18	4.69	27.73	423,16	33.62	9.1-	-1.4	9.1.	-1.0	
v	426.11	98.	19.88	-i. i	-1.00	3,34		-1.80	-1.86	-1.99	-1.68	33,26	a : 1-	e. I	-1.0	-1.6	- -
٢	442.61	6. 58	21.50	-1.00	-1.00	3.66	12.48	-1.01	-1.11	8.86	518.00	36.86	-1.8	-1.4	1.1	4.1.	9.1.
16	375.66	6.74	23.44	29.11	4.46	4.82	-1.88	-1.88	-1.00	-1.06	-1.60	38 .25	.	-1.6	-1.6	-1.6	-1.6
2	291.11	1.84	22.88	-1.8	-1.99	4.16	-1.89	4.96	2.58	7.99	496,00	35.51	9.65.8	9.5	14.2	2.5	31.2
4	96.99	1.6	25.93			4.88	18.29	-1.88	11.1-	7.87	497.66	37.16	9.1.	-1,0	-1.6	-1.8	-1.6
	314,11	6.69	29,38	-1.84	-1.10	5.27	1.1-	7.18	-1.01	-1.99	-1.86	38,93	14.8	9.1-	-1.6	9.1-	9.1.
8	326.06		29,51	-1.1	-1.8	5.67	1.1.	11.1-	-1.86	-1.11	-1.01	38.18		-i.	1.1-	-1.6	9.1-
61	286.61	3.88	29 ,35	-1.88	-1.88	5.25	14,98	-1.88	-1.86	7.95	544.78	37.18	4.1-	-1.6	9.1-	#9· ·	-1.6
2 1	296.11	1.49	29,15	-1.60	-1.0	4.38	11.68	-1.8	-1.06	7.99	522.46	38,12	-1.9	9.1-	•: 1-	9.1-	9.1-
24	265,11	5.83	24.26	-1.88	-1.88	-1.88	10.1-	-1.88	-1.66	-1.88	99.1-	36.74	11.6	9.1-	9.1-	-1.6	٠١.
53 5	334,00	1.76	28,97	-1.1	-1.0	-1.80	-1.08	12.70	6.68	-1.08	-1.68	37,54	9.1-	4.1-	-1.6	-1.8	-1.8
2 E	314.11	1.25	31,38	-1.1	-1.8	-1.9	17.98	-1.88	-1.99	7.66	541.79	37,18	-1.6	- · · ·	-1:1-	-1.5	-1.
27	383,01	16.1.	32.19	-1.88	-1.86	19. ! -	-1.00	-1.88	-1.69	-1.88	-1.68	36,35	-1.6	9.1-	9.1-	-1.6	-1.6
28 ***	295.00	1.53	31.84	-1.1	-1.81	-1.00	12,89	-1.88	-1.00	7.96	541.68	35.19	1.1.	-1.0	-1 · 6	-1.0	-1.4
	416.00	1.76	34.81	34.51	3,15	-1.58	-1.64	4.18	16.3	-1.11	-1.00	31.56	6.8	-1.8		-1.6	-1.6
0	694.11	1.84	33,28	-1.80	-1.88	-1.86	1.6	1.00	-1.01	-1.66	-1,68	38.83	-1.6	-1.6	-1.0	-1.6	-1.4
₩	293.11	1.29	32,95	-1.61	11.1-	1.1.	17.88	91.1-	-1.68	8.83	424.88	30.66	9.1-	9.1-	• •	-1.0	-1.6
00	311.11	16.1	36,68	-1.86	-1.68	-1.98	-1.1	-1.66	-1.00	-1.08	19.1-	-1.88	ē. <u>-</u>	-1.6	-1.6	-1 ·	-1.6
a	316.11	1.74	31.14	-1.1	-1.1	-1.98	-1.8	-1.08	-1.8	-1.00	-1.88	-1.88	36.8	-1.0	•: -	9. i -	-1.6
-	307.88	4.23	28.78	31.62	6.85	-1.86	34.88	12.88	8.68	7.79	534,38	-1.68	-1.0	-1.6	8. 1-	-1.0	9.1-
17	273.88	8,56	34.16	35.48	6.97	-1.98	18.19	-1 .86	-1.68	7.74	615,21	31.66	-1.1	13.5	12.8	3,3	36.4
22	297.11	1.24	48.24	-1.1	-1.06	-1.0	-1.1	-1.88	-1.66	-1.00	-1.66	35.76	1.1-	9. 1.	-1.8	-1.0	-1.6
() ()	365.11	9.19	32.68	30.43	16.9	10.1.	-1,0	-1.66	19.1-	-1.86	-1.88	39.68	9· 1-	-1.0	-1.6	1.1-	-1.6
5	352,00	5.86	33.60	-1.11	1.1.	-1.1	-1.1	-1.00	-1.88	7.72	546.88	29,82	B	9.1.	-1.0	-1.0	-1.
5 2	314.00	4.32	32.61	-1.1-	1.1-	-1.66	16.11	-1.88	-1.10	1.7.7	536.98	27,22	•:-	٠١.	-1.6	-1.4	1.1-
, (2)	339.11	2,59	36.66	1.1	-1.10	11:11	21.11	-1.84	-1.88	7.77	628.88	38.12	-1.6	-1.	-i.	9. 1-	•. i

					2	TABLE 6	RUNOFF FRO	KUNOFF FROM SECONDARY SECTION	SECTION	17 MAY	17 MAY 1977 - 31 MAY 1978	AY 1978					
PA T	44 159	EQ.	¥.	NCK	P.(T)	P04	900	SSI	SSA	Ŧ	COND	j j	CF(F)	×	C.A	SP.	A A
¥ C	241.00	1.1	1.11	2.48	8.	1:1-	-1.8	-1.88	-1.0	7.28	349.88	37.97	-1.	-1.0	9,1-	#· I -	-1.6
JUNE	276.00	88.	1.54	-1.8	11.11-	19.1-	-1.00	-1.80	11.1	7.58	319.68	45.86	9. 1-	-1.6	-1.8	-: -	-1.4
· •	382.00	.13	1.17	-1.1	-1.90	19.1-	16.1-	-1.88	1.86	7.68	365.66	31.72	-1.8	-1.6	-1 · f	-1.	1:1-
œ	93,46	2.88	2.19	5.75	8.	-1.68	4.78	19.1-	-1.88	7.35	320.09	32.42	26.8	-1.6	-1.8	٠.١٠	- : -
52	174.00	2.14	1.36	3.85	1 ,28	-1.88	-1.88	5.18	3.38	7.58	439.06	43.72	- · · ·	14.3	31.6	5.7	18.4
<u> </u>	8	2,23	1.51	-1.01	-1.98	1.1.	-1.06	-1.60	-1.88	-1.68	-1.66	36.29	-1.6	-1.0	- i .	•· · ·	-1:
: 2	•	1.36	6.34	-1.16	-1.66	-1.86	-1.60	-1.68	-1.88	7.15	486.88	40.16	-1.8	-1.8	-1.6	÷: ;-	-1.
23	123.00	1.1	7.67	16.87	4.86	-1.88	7.20	-1.60	99.1-	-1.68	-1.08	42.58	-۱ ، ۹	9	-1.8	-1.8	-1.8
28	445.88	1.72	14.57	-1.86	4,39	11.1-	-1.80	5.13	4.68	-1.98	-1.88	41 .73	-1.6	-1.8	9.1-	. i.	•
기 -	328.86	1,27	5,84	-1.00	-1.68	19.1-	-1.88	-I.66	-1.66	7.48	387,66	26.51	-1.6	9. [-	-1.0	- -	-1.
· v	25.11	1.71	3.03	36.5	3.12	-1.00	-1.86	-1.86	-1.86	7.88	362.88	28.85	9.	-1.6	-1.0	- i -	-1.8
~	112.11	1.76	5 ,92	-1.00	-1.84	-1.86	12.80	-1.58	-1.88	1.96	-1.64	26.37	*1 · 6	9.1-	· · ·	• · -	-1 ·
Ξ	112.00	6.15	5.79	-1.88	1.84	*****	-1.89	1.16	89.4	1.58	358.68	28.15	9.1.	-1.8	9.1-	-1.B	•. -
≝ 34		1.66	4,98	-1.00	-1.0	-1.86	-1.86	-1.68	-1.00	-1.69	98.1-	27.49	-1.0	1.1-	#· I -	- ĭ - 6	-1.6
<u> </u>	31.81	1.87	3,37	7.55	2.99	-1.66	- i . 6 f	-1.88	-1.66	-1.68	-1.86	27.31		12.3	18.4	4.4	47.5
ā,	52.11		2,21	-1,88	-1.0	-1.88	-1.8	-1.68	-1.66	-1.88	-1.88	26.21	-1.6	-1.8	¥	-1.0	-1.0
8	77.00	1.95	3.34	-1.00	-1.00	-1.86	-1.66	-1.88	-1.66	-1.86	-1.68	27.48	e.	•	-1.4	-1.6	-1.
6	78.81		4.83	-1.86	-1.66	-1.60	-1.88	-1.00	1.99	7.48	388.88	26.12	-1.8		-1.6	-1.8	-1.6
2	81.18		4.88	7.24	4.35	-1.06	-1.86	-1.88	-1.98	88	-1.88	24.95	4.1-	9. [-	1.1	-1.0	-1.6
21	:	5.14	5.21	***-	-1.68	-1.4	2 .39	-1.88	-1.68	-1.86	-1.68	25,31	P: !-	-1.6	e.:-	9.1-	9. !-
22	165.41		8.19	-1.8	-1.86	-1.06	-1.00	-1.66	-1.60	-1.68	-1.88	186.32	-1.0	-1.6	-1.6	ē. -	-i -
56	:	8.32	10.59	-1.8	-1.66	-1.86	-1.68	-1.68	-1.86	-1.89	-1.66	49.71	e: :-	÷:-	-1.0	-1.6	1.
2-7-	96.46	5.57	8.53	-1.66	-1.66	-1.66	.i.06	-1.00	-1.88	7.35	502.68	38,35	9. I -	6.1-	-1.0	9.1-	-1.8
88	118.11	7.49	7.42	-1.06	16.1-	-1.68	10.1-	2.81	1.24	-1.00	99.1-	31.48	-1.6	1.1-	-1.4	-1.6	-1.
53	121.10	8.82	6.87	8.82	4.72	-1.88	11.11	-1.84	-1.88	10.1-	9941-	36.95	-1.6	•••	-1.8	9.1.	• i •
AUG S.	123.00	19.65	91.9		-1.01	-1.06	-:-	-1.06	-1.68	7,35	456.88	31.25	-1.6	9. 1-	-1.6	1.8	1.1.
N.	18.81	23.68	6.69	1.1-	-1.00	-1.86	-1.66	-i .68	-1.88	-1.88	-1.00	31.11	3.884	9:1-	7	. i .	-:-
Ø	297.16		8.86	18.58	5.19	-1.88	.1.1	-1.99	-1.0	7.48	379.68	29.21	7.	10.5	16.2	4.5	26.7
12	236.99	1.16	1.57	-1.88	-1.08	10.1-	-1.00	-1.11	-1.00	-1.66	-1.66	48.73	9:1-	9.1.	· ;		
18	272.	25.58	1.25	-1.68	.1.8	-1.86	4.38	-1.60	1.1.	7.48	317,86	38.19	-1.8	9.1-	1.1-	9. 1 -	-1.6

6,91 1,22 1,14 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>,</th><th>;</th><th></th><th>;</th><th>,</th><th></th><th></th></th<>											-	,	;		;	,		
13.4.1 6.5. 6.2. <	28 TE	WATER	303	N2.4	CXDR	77.0	P.04	ace	ř.	283	76	6800	25	37.75	» :	43	ဋ	
9.9. 1.9. <th< td=""><td>1.9</td><td>134.00</td><td>6.9</td><td>1.25</td><td>-1.1</td><td>-1.1</td><td>-</td><td></td><td>-</td><td>-1.0</td><td>-1.6</td><td>-1.00</td><td>31.62</td><td>•:-</td><td>•</td><td>1.1.</td><td>-1.6</td><td>-1.1</td></th<>	1.9	134.00	6.9	1.25	-1.1	-1.1	-		-	-1.0	-1.6	-1.00	31.62	•:-	•	1.1.	-1.6	-1.1
43.9 1.0 1.0 1.1 <td></td> <td>352,11</td> <td>9.39</td> <td>1.95</td> <td>91.1</td> <td>2.17</td> <td>1.1.</td> <td>-:-</td> <td>1.81</td> <td></td> <td>7.38</td> <td>337.00</td> <td>26.83</td> <td>9. [-</td> <td>-1.6</td> <td>-1.1</td> <td>• - 1 -</td> <td></td>		352,11	9.39	1.95	91.1	2.17	1.1.	-:-	1.81		7.38	337.00	26.83	9. [-	-1.6	-1.1	• - 1 -	
19.1 1.13 2.16 1.14 <th< td=""><td></td><td>285.88</td><td>9.25</td><td>28.</td><td>-1.0</td><td>-1.1</td><td></td><td>-1.1</td><td>-</td><td>-</td><td>-1.1</td><td>-1.80</td><td>25.84</td><td>1.1.</td><td>1.1.</td><td>-1.1</td><td>-1.0</td><td>-1.1</td></th<>		285.88	9.25	28.	-1.0	-1.1		-1.1	-	-	-1.1	-1.80	25.84	1.1.	1.1.	-1.1	-1.0	-1.1
13.1 1.3 1.4 <td>25</td> <td>473.88</td> <td>7.13</td> <td>2,52</td> <td></td> <td>-1.</td> <td>-1.1</td> <td>-1.1</td> <td>-1.1</td> <td>-1.0</td> <td>1.1.</td> <td>-1.00</td> <td>34.55</td> <td>•1.1-</td> <td>-</td> <td>9. []</td> <td>1.1-</td> <td>-1.6</td>	25	473.88	7.13	2,52		-1.	-1.1	-1.1	-1.1	-1.0	1.1.	-1.00	34.55	•1.1-	-	9. []	1.1-	-1.6
19.36 19.36 19.36 19.31 19.31 19.31 19.32 19.32 19.32 19.33 19.36 19.33 19.33 19.34 <th< td=""><td>₽ #'.</td><td>185.00</td><td>8.14</td><td>:</td><td>-1.</td><td>• • •</td><td></td><td>÷.</td><td>-1.1</td><td>-1.88</td><td>-1.08</td><td>-1.66</td><td>24,38</td><td>• -</td><td>9. I -</td><td>4. 1.</td><td>• : : -</td><td>#· I -</td></th<>	₽ #'.	185.00	8.14	:	-1.	• • •		÷.	-1.1	-1.88	-1.08	-1.66	24,38	• -	9. I -	4. 1.	• : : -	#· I -
15.00 15.00 15.1	EP -	328.00	12.36	1.51	-	-	::-	3.10	-1.1	-1.86	7.35	314.88	25.16	4.8	3.9	13.5	3.8	38.9
13.1 6.53 4.53 4.10 <th< td=""><td>۴۰</td><td>147.88</td><td>15.62</td><td>1.13</td><td>1.52</td><td>3.64</td><td>-1.6</td><td>-1.1</td><td>7,33</td><td>2.53</td><td>7.25</td><td>346.88</td><td>35.36</td><td>-1.0</td><td>-1.6</td><td>¥. i -</td><td>-1.6</td><td>-1:-</td></th<>	۴۰	147.88	15.62	1.13	1.52	3.64	-1.6	-1.1	7,33	2.53	7.25	346.88	35.36	-1.0	-1.6	¥. i -	-1.6	-1:-
9.9. 4.23 4.13 4.14 <th< td=""><td>ø</td><td>123.00</td><td>6.83</td><td>5.39</td><td>-1.1</td><td>1.1.</td><td>:::</td><td>÷. :-</td><td>-1.1</td><td>-1.06</td><td>-1.0</td><td>-1.66</td><td>34.52</td><td></td><td>•:</td><td>1. I-</td><td>-1.6</td><td>-1.1</td></th<>	ø	123.00	6.83	5.39	-1.1	1.1.	:::	÷. :-	-1.1	-1.06	-1.0	-1.66	34.52		•:	1. I-	-1.6	-1.1
14.1.1 1.1.1 <t< td=""><td>13</td><td>387.00</td><td>6.58</td><td>4.23</td><td></td><td>-1.1</td><td>-1.0</td><td>-1.1</td><td>-1.1</td><td>-1.1</td><td>7 ,29</td><td>287.00</td><td>45.49</td><td>•••</td><td>9-1-</td><td>-1.6</td><td>-1.0</td><td>-1.6</td></t<>	13	387.00	6.58	4.23		-1.1	-1.0	-1.1	-1.1	-1.1	7 ,29	287.00	45.49	•••	9-1-	-1.6	-1.0	-1.6
14.1.1 8.92 1.14 <	4	549.88	1.11	:		1.17	-1.0	1.1.	-i . B	1.1.	1.69	264.00	22.54	1.1-	1 :		•	-1.6
14.1.1 1.1.1 <t< td=""><td>5</td><td>141.88</td><td>8.92</td><td>:</td><td>-1.1</td><td>-1.1</td><td>-1.0</td><td>7.</td><td>-1.1</td><td>. i . 8</td><td>-1.66</td><td>-1.8</td><td>29,28</td><td>33.8</td><td>-1.6</td><td>-1.6</td><td>-1.</td><td>-1.6</td></t<>	5	141.88	8.92	:	-1.1	-1.1	-1.0	7.	-1.1	. i . 8	-1.66	-1.8	29,28	33.8	-1.6	-1.6	-1.	-1.6
4.6.1 1.13 1.14 1.14 3.61 3.61 3.15 3.11 1.14 1.14 3.61 3.61 3.15 3.11 1.14 1.14 4.15 1.14 4.15 1.14 4.15 1.14 4.15 1.14 4.15 1.14 4.15 1.14 4.15 1.14 4.14 <t< td=""><td></td><td>214.00</td><td>9.70</td><td>1.26</td><td>-1.11</td><td>-1.11</td><td>11.11</td><td>-1.1</td><td>-1.00</td><td>-1.4</td><td>-1.66</td><td>-1.66</td><td>32.82</td><td>-1.6</td><td>-1.6</td><td>1.</td><td>•</td><td>-1:4</td></t<>		214.00	9.70	1.26	-1.11	-1.11	11.11	-1.1	-1.00	-1.4	-1.66	-1.66	32.82	-1.6	-1.6	1.	•	-1:4
4.2. I 1.13 1.25 -1.14 -1.16		499.11		6.13	177	9.48	-	-1.1	3.68	3.68	8.8	213.80	8.11	-1.6	-1.6	-1.	-1.1	- I -
39.1.1 4.18 1.18 1.19 <		16.11	16.38	1.25	1.1-	-1.1	-1.8	-1.1	4.58	-1.60	-1.68	-1.06	37.88	-1:0	-1.6	•1.		-1.
395.40 9.56 1.16 1.17 1.19 <	27	252.11	0.13	84.	1.39	£.1	1.1-	-1.1	1.1.	-1.86	7.95	232.00	7.12	-1.6	-1.8	-1.0	6. 1 -	-1.6
315.10 4.17 1.10 -1.10		397.68	9.36	91.1	 	2.76	-1.	1.1-	-1.6		7.78	451.66	28,97	-1.6	-1.6	-1.	-1.0	-1 .6
210.10 3.92 0.32 0.11 0.110 0		365.00	4.87	::	-1.1	-1.0	-	-1.1	-1.00	-1.88	-1.60	-1.68	25,16	e. i -	-1.6	-1.4	-1.1	-1:-
814.01 1.22 1.89 1.89 -		211.11	3.92	6.32	-1.9	-1.1	11.1-	3.74	-1.06	-1.11	-1.00	-1.68	25.43	3.6	-1.6	-1.0	-1.6	-1:
485.16 2.68 2.68 2.62 -1.10 -		814.68	1.22	:	1.42	1.38	11.1-	-1.1	-1.08	-1.18	-1.06	-1.00	3,55	-1.0	1.0	13,5	2,3	13.1
495.10 2.40 4.67 -1.00	4	388.11	2.68	2.88	4.68	3.45	10.1-		-1.66	-1.88	7.55	348.68	26.28	-1.6	-1.0	•. 7	-1.6	• · · ·
422.10 6.43 6.13 6.14 -1.89 -	ų	415.11	2.41	4.67	-1.1	-1.1	-1.1	-1.0	-1.00	11:11	7.85	278.88	28.66	-1.6	-1.6	- i -	-1.6	-1:
42.16 1.61 -1.61	=	822.11	6.13	6.13	1,35	6.19	-1.1	-1:1	-1.00	-1.01	-1.00	-1.66	4.11	-1 -8	2.1	16.4	3,2	25.5
226.11 6.38 52.65 1.01 -1.01	12	123.11	5.45	19.1	-1.1	-1.1	11.1-	5.88	-1.06	-1.88	7.80	339.00	23.58	-1.6	-1.6	•:1-	•:	-1.6
226.11 6.38 52.25 -1.11 -1.16 <th< td=""><td></td><td>166.11</td><td>1.15</td><td>9.16</td><td>1.20</td><td>6 .37</td><td>11.11</td><td>-1.0</td><td>-1.00</td><td>-1.68</td><td>8.16</td><td>153.00</td><td>2.68</td><td>-i ·</td><td></td><td>-:-</td><td>•: 1-</td><td>-1:</td></th<>		166.11	1.15	9.16	1.20	6 .37	11.11	-1.0	-1.00	-1.68	8.16	153.00	2.68	-i ·		-:-	•: 1-	-1:
59.00 2.00 1.00 -		226.11	6.38	\$2.2\$	-1.98	3,37	-1.98	-1.0	. i . 8 B	-1.1	7.95	782.68	24.44	9.1-	16.5	17.9	3.5	46.7
367.01 2.95 11.28 -1.00	56	59.11	2.11	12.	-1.88	-1.1	-1.00	3,2	11.1	-1.10	7.25	145.66	7.86	9.]-	-1.0	1.1-	1.1-	-1.4
225.00 3.70 12.45 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 32.87 -1.0 -1.0 -1.0 1.00 1.00 1.00 1.00 1.00	27	387.88	2 .95	11.21	-1.0	-1.0	-1.00	-1.80	-1.60	-1.10	-1.06	-1.08	32,88	-1.6	-1.1	-1.0	-1.0	-:-
76,88 7,14 9,29 -1,88 -1,88 -1,88 -1,88 -1,88 -1,88 -1,88 33,61 -1,8 33,61 -1,8 -1,8 -1,8		225.11	3.78	12.45	-1.86	-1.60	.1.8	-1.1	-1.80	-1:1:	-1.00	-1.66	33.82	-1.1	-1.0	-1.0		9. :-
76.88 9.54 6.73 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 33.61 -1.8 -1.8		16.11	7.14	9.29	-1.1	-1.6	-1.00	. I.	-1.00	-1.00	-1.0	-1.00	32,87	-1.8	-1.6	1.1.	-1.6	-1.
	20x	16.01	9.54	6.73	1.1-	-1.11	-1.01	-1.1	-1.88	-1.1	-1.00	-1.1	33.61	-1.0	-1:	-1.6	-1.0	a. I.

EATS.	WATER	303	NH A	ECKO	P. T.	P.04	300	15.5	SSA	Hd	CCND		CFCF)	×	40	85	4
m	391.88	6.82	13.76	: ·	1.1-	-1.50	1.1	2.78	5.88	7.98	443.88		-1.8	-1.4	-:-	•:-	
7	214.11	8.51	13.50	1.1.	-1.8	1.1-	1.1.	-1.8	-1.6	8.81	469.68		9· I-	11.5	16.9	4.2	32.5
60	181.00	1.91	14.55	14,23	4.47	-1.1	-1.10	1.1.	-1.6	-1.01	-1.83		-1.4	-1.1	9.1-	-:-	
ø	332.00	26.88	13.23	-1.88	-1.1	-1.6	9.28	5.58	8.5	-1.8	96.1-		1.1-	-:-	9.1-	-1.6	7.
=	225.11	7.68	15.76	-1.0	-1.0	-1.6	-1.1	-1.88	-1.68	-1.11	-1.88		-1.6	-:-	•1.0	1.1-	7
-	379.00	17.95	4.96	6.68	3.51	-1.0	H. !-	-1.00	-1.88	7.45	419.08		-1.6	-1.6	1.1.	ē: !-	
52	524.11	22.17	7.47	-1.81	-1.68	1.1-	1.1.	10.1-	-1.60	99.1-	-1.86		-1.6	-i. e	-1.6	-1.6	-
4	231.84	18.24	14.24		-1.88	-1.0	11.58	2.68	3.18	-1.68	-1.88		8.1-	9.1-	٠٠ ٢-	1.1.	7
1.7	93.11	9.46	6.36	-1.1	-1.88	-I .B	11.1-	-1.00	-1.88	-1 .00	-1.68		18.6	9.1-	-1.0	-1.6	
82	277.08	8.18	14.26	-1.0	-1.00	-1.86	-1.66	-1.06	-1.88	-1.68	-1.88		-1.0	1.1-	9.1-	4.1-	
21	221.11	7.32	18.91	1.1.	-1.1	1.1-	-1.98	-1.68	-1.88	-1.68	-1.89		-1.8	-1.0	9.[-	-1.6	
22	65.11	8.75		13.79	5.31	-1.84	1.1.	-1.06	-1.88	7.78	513,00		9.1-	-1:1	9. 1.	F. 1-	
23	232.11	-1.0	1.1-	1.1-	-1.8	-1.00	10:1-	98.6	8.76	-1.68	-1.88		6.1-	-1.6	-1.6	٠1.	
86	86.11	3.81	15,83	11.1-	-1.64	-1.11		-1.0	-1.81	99-1-	-1.86		9.1-	9.1-	-1.6	-1.6	-
29	266.01	5.14	15.01	-1.00	-1.10	-1.00	-1.06	-1.00	-1.68	7.96	475.88		-1.0	g. : -	9.1-	9.1-	
80	253.00	-1.11	1.1-	-1.1	-1.00	-1.1	11.1	4.10	3.88	-1.68	-1.88		-1.8	9. !-	-1.6	-1. 6	7
) 10	216.11	19.1-	-1.6	-1.68	-1.88	-1.88	-1.1	1.00	3.99	-1.08	-1.89		-1.0	-1.8	-1.6	-1.8	
-	367.00	2.19	1.13	11.11	11.11	-1.66	-1.88	-1.00	-1.99	7.65	268.88		P. 1.	9.1-	.	-1 -	9.1-
~	232.00	6.64	16.15	18.37	5.63	-1.0	-1.68	-1.68	-1.88	-1.00	.1.88		-1.6	-1.6	-1.6	-1.6	-1.6
'n	196.88	5.21	12.13	-1.00	-1.06	11.11	-1.89	-1.00	-1.98	8.85	521.00		-1.0	•: -	9.1-	4. I -	7
¢	259.11	6.27	28,35	-1.00	-1.11	-1.0	-1.00	-1.06	-1.86	-1.66	18.1-		-1.8	9.1.	6. 1-	-1.6	
œ	219.00	5.66	16.51	16.82	2.74	-1.00	-1.1	2.48	2.48	19.7	542.88		312.0	9:1-	٠1.6	-1.6	
o	247.11	9.11	16.08	-1.6	-1.00	1.1.	1.1.	2.8	2.81	1.78	488.88		9.1-	9.1-	9.1.	-1:-	-1.5
13	192.61	1.1	18.86	21.27	4.63	-1.00	-1.1-	-1.86	-1.88	8.85	552.11		9.1-	9	-1.0	-1.4	
7	315.11	6,36	14.97	15.73	3.80	10.1-	-1.1	2.50	2.51	7,95	516.00		-1.1	-1.6	٠١٠	-1.8	
2	453.00	5.58	11.44	-1.86	-1.1	-1.10	1.1-	-1.80	-1.11	-1.08	99.1-		1.000	- - -	-1.6		
16	267.11	5.27	11.39	-1.58	-1.50	-1.68	-	-1.68	-1.10	-1.66	-1.88		-1.0	-1:4	-1.6	-1.1	-:-
21	257.11	5.53	14.34	14.65	3.79	1.86	-1.66	-1.00	-1.06	-1.00	-1.68		-1.6	ş: - -	1.1-	-1.6	
22	281.11	4.61	13.44	1.1.	-1.06	-1.60	9.11	11.1-	-1.68	7.18	447.88		6.1-	-i.f	-1.6	-1. 6	7
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TABLE 6 CONT.

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13.62.10 1.45 1.48 1.45 -1.10 201.10 2.82 17.56 -1.10 -1.10 -1.10 237.10 2.82 17.56 -1.10 -1.10 -1.10 248.10 3.12 25.74 27.77 6.33 -1.10 227.10 2.95 26.41 -1.10 -1.10 -1.10 227.10 2.95 26.41 -1.10 -1.10 -1.10 227.10 2.95 26.41 -1.10 -1.10 -1.10 227.10 2.95 26.41 -1.10 -1.10 -1.10 227.10 3.71 29.44 -1.10 -1.10 -1.10 245.10 2.95 29.25 6.25 -1.10 245.10 2.94 29.75 -1.10 -1.10 252.10 2.94 29.75 -1.10 -1.10 253.10 2.94 2.96 -1.00 -1.10 253.10 2.94 2.96 -1.00 -1.10 <th></th> <td>217.00</td> <td>3.87</td> <td>26.75</td> <td>-1.0</td> <td>-1.1</td> <td>-1.1</td> <td>16.62</td> <td>-1.6</td> <td>96.1-</td> <td>-1.68</td> <td>-1.68</td> <td>42.88</td> <td>-1.0</td> <td>9.1-</td> <td>-1.8</td> <td>-1.5</td> <td>-1.6</td>		217.00	3.87	26.75	-1.0	-1.1	-1.1	16.62	-1.6	96.1-	-1.68	-1.68	42.88	-1.0	9.1-	-1.8	-1.5	-1.6
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243.41 4.35 29.94 29.75 6.46 -1.16 292.11 2.94 29.75 -1.16 -1.16 -1.16 572.11 1.22 1.67 -1.16 -1.16 -1.16 792.11 1.65 11.36 -1.16 -1.16 -1.16 231.11 2.74 16.69 17.56 3.44 -1.16 274.10 2.74 16.89 17.56 3.44 -1.16 199.11 2.96 12.83 25.93 4.99 -1.16 134.11 4.42 28.92 29.36 5.49 -1.16 135.11 2.96 12.83 25.93 4.99 -1.16 186.11 2.94 33.85 -1.16 -1.16 -1.16 195.11 2.44 33.85 -1.16 -1.16 -1.16 195.11 3.94 31.26 34.91 5.12 -1.16 183.16 3.52 28.47 31.41 4.81 -1.16 183.16 3.52 28.66 31.56 -1.16 183.16		218.11	16.6	24.88	24.65	6,53	-1.00	10.1-	19.1-	-1.08	-1.68	-1.06	89°66	1750.0	-1:	1.1-		-1.6
292.31 2.94 29.75 -1.86 <td< td=""><th></th><td>243.00</td><td>4.35</td><td>29.94</td><td>29.75</td><td>6.48</td><td>-1.86</td><td>-1.00</td><td>3.78</td><td>3.30</td><td>-1.88</td><td>-1.68</td><td>98.44</td><td>-1.8</td><td>-1.6</td><td>9.1-</td><td>-1.4</td><td>-1.6</td></td<>		243.00	4.35	29.94	29.75	6.48	-1.86	-1.00	3.78	3.30	-1.88	-1.68	98.44	-1.8	-1.6	9.1-	-1.4	-1.6
572.11 1.22 1.67 -1.16 -1.16 -1.16 732.11 1.63 4.38 -1.16 -1.16 -1.16 231.12 1.65 17.56 3.44 -1.16 231.16 2.74 16.69 17.56 3.44 -1.16 199.16 2.96 12.83 25.93 4.99 -1.16 134.16 4.42 28.92 29.36 5.49 -1.16 186.01 2.44 33.85 -1.16 -1.16 -1.16 186.11 3.94 31.26 34.91 5.42 -1.16 195.11 4.21 29.94 34.11 4.81 -1.16 183.16 5.32 28.47 31.56 5.90 -1.16		292.01	2.94	29.75	-1.14	-1.00	-1.66	29.68	-1.60	-1.68	7.20	761.68	83,28	-1.	•	-1.6	-1.	-1.0
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330.00 11.65 10.36 -1.00 -1.00 -1.00 231.00 2.74 16.69 17.56 3.44 -1.00 274.00 2.41 18.20 -1.00 -1.00 -1.00 199.00 2.96 12.83 25.93 4.99 -1.00 134.00 4.42 28.92 29.36 5.49 -1.00 238.00 1.92 35.26 36.13 5.18 -1.00 166.00 2.44 33.85 -1.00 -1.00 -1.00 354.00 3.94 31.26 34.90 5.02 -1.00 195.00 4.20 29.34 34.00 4.81 -1.00 294.00 5.52 28.66 31.56 5.00 -1.00		152.11	8.8	4.38	-1.0	-1.60	-1.81	-1.08	-1.06	-1.86	-1.68	-1.68	16.88	-1:-	-:-	-1.0	-1:	-1.6
231.11 2.74 16.69 17.56 3.44 -1.11 274.11 2.91 18.21 -1.11 -1.11 -1.11 199.12 2.95 12.83 25.93 4.99 -1.11 134.11 4.42 28.92 29.36 5.49 -1.11 238.11 1.92 35.26 36.13 5.18 -1.11 186.11 2.44 33.85 -1.16 -1.16 -1.10 354.11 3.94 31.26 34.91 5.42 -1.10 195.11 4.21 29.94 34.14 4.81 -1.10 294.10 5.52 28.66 31.56 5.90 -1.10		330.00	1.65	18.36	-1.0	-1.0	-1.00	16.88	10.1-	-1.80	7.15	346.86	30.28	-1.	-1.6		1.1	-1.
274.61 2.41 18.21 -1.61 <td< td=""><th></th><td>231.00</td><td>2.74</td><td>16.69</td><td>17.56</td><td>3.44</td><td>-1.88</td><td>-1.08</td><td>-1.88</td><td>-1.66</td><td>-1.86</td><td>-1.68</td><td>43.68</td><td>-1.0</td><td>1:1-</td><td>-:-</td><td>-1.6</td><td>-1.6</td></td<>		231.00	2.74	16.69	17.56	3.44	-1.88	-1.08	-1.88	-1.66	-1.86	-1.68	43.68	-1.0	1:1-	-:-	-1.6	-1.6
199.88 2.96 12.83 25.93 4.99 -1.88 134.8 4.42 28.92 29.36 5.49 -1.88 236.8 1.92 35.26 36.83 5.18 -1.89 186.8 2.44 33.85 -1.89 -1.89 -1.89 354.8 3.94 31.26 34.99 5.82 -1.89 195.8 4.21 29.94 34.91 4.81 -1.89 183.9 5.32 28.47 31.41 4.98 -1.89 294.8 5.62 28.66 31.56 5.80 -1.89		274.00	2.41	18,28	-1.0	-1.00	-1.61	-1.00	30.5	2.8	-1.00	10.1-	-1.88	-1 -	-1.0	-1.4	-1.	• 1-
4.42 28.92 29.36 5.49 -1.88 1.92 35.26 36.83 5.18 -1.88 2.44 33.85 -1.88 -1.88 -1.88 3.94 31.26 34.98 5.82 -1.88 4.28 29.94 34.84 4.81 -1.88 5.32 28.47 31.41 4.98 -1.88 5.62 28.66 31.56 5.80 -1.88		199.88	2.96	12,83	25.93	4.99	-1.00	-1.98	-1.61	-1.66	-1.66	-1.60	-1.88	-1.1	-1:	-1.0	-1.0	-1.4
1.92 35.26 36.83 5.18 -1.88 -1.88 3.39 3.38 -1.88 -1.88 -1.88 4.28 29.94 34.88 4.81 -1.88 5.62 28.66 31.56 5.80 -1.88		134.00	4.42	28.92	29,36	5.49	-1.60	-1.68	-1.66	-1.66	-1.06	-1.6	42.17	-1.5	1:1.	-1:	9. [-	-1:-
2.44 33.85 -1.86 -1.86 -1.86 3.94 31.26 34.99 5.62 -1.86 4.28 29.94 34.86 4.81 -1.86 5.32 28.47 31.41 4.98 -1.86 5.62 28.66 31.56 5.60 -1.86		238.11	1.92	35.26	36.83	5.18	-1.1	-1.10	-1.0	-1.00	-1.8	-1.66	127.52	-:-	-1.6		-1:-	-1.
3.94 31.26 34.96 5.62 -1.66 4.28 29.94 34.86 4.81 -1.66 5.32 28.47 31.41 4.98 -1.66 5.62 28.66 31.56 5.60 -1.66		186.11	2.44	33 .85	-1.86	1.1-	-1.00	-1.88	-1.66	- i . B.B	-1.88	-1.8	-1.86	-	a. 1.	1. -	-1.6	-1.
4.28 29.94 34.86 4.81 -1.88 5.32 28.47 31.41 4.98 -1.88 5.62 28.66 31.56 5.80 -1.88		354.11	3.94	31.26	34.98	5.42	-1.00	-1.1	-1.0	-1.86	7.38	875.88	125.68		÷: -:	-1.1	-1.	7.
5.32 28.47 31.41 4.98 -1.88 5.62 28.66 31.56 5.80 -1.88		195.11	4.24	29.94	34.86	4.81	-1:1	1.1-	-1.00	-1.66	-1.88	-1.00	117.88	46266.1	1.1.		. :-	
5.42 28.66 31.56 5.80 -1.88		183.00	5.32	28.47	31.41	4.98	-1.06	11.1-	4.78	3.68	6.9	864.66	98.88	-1 -	9.1-	-1.0		-1.
		294.66	S. 8	28.66	31,56	5.60	16.1-	-1.66	-1.00	-1.01	-1.00	-1.00	86.38	-1	-:-	-1.1	-:	7

STE	E WATER	MO3	4 至	NCK)	P(T)	P.O.4	do£	155	SSA	ii O.	CRD	75	CF(F)	*	A A	£	a.
₹.	254.11	5.36	27.83	-	-1.00	-1.66		5.68	4.18	1.1.	-1.88	69.84	17006.0	1.1-	9. I.	1.1-	-1
9	211.11	5.31	27.85	-1.8	1,1	-1.1		-1.00	-1.1	6.95	639.00	-1.88	7	9. 1-		•	•
<u>r-</u>	221.11	1.88	27.59	31.91	5.12	-1,96		19.1-	-1.88	-1.66	-1.08	-1.00	- 1-	9.7-	-		-
22	133.88	11.32	22,51	25,77	5.56	-1.18		11.1-	11.1-	6.86	627.88	44.78	7	7		•	-
23	281.88	4.15	38.56	-1.1	11.11	5.78		5.38	4.6	1.10	-1.89	46 .32	.1.		9.7-		
24	286.00	2.89	32,32	11.11	-1.00	5.92		-1.1	1.1.	-1.0	-1.60	38.95		•	• •	-	
27	239.88	6.14	34,72	-1.66	-1.8	7.32		-1.0	-1.6	-1.00	-1,06	39.65	• 7	4.1.			- 1.0
85 t	265.11	2.92	36,28	-1.88	-1.8	96.9		4.78	4.38	-1.88	1.00	38.82	-	8.1.	-	= -	-
	139.00	91.9	29,28	-1.18	-1.1	6.44		1.1.	-1.00	-1.88	-1.00	38.83	# · · · · · · · · · · · · · · · · · · ·	9.11	-1.1	-	7
	134.00	7.99	29,85	35.56	16.5	5,88		5.98	4.68	-1.66	-1.88	45.51	B. 1-	. I.	-1.6	• -	-
	277.00	3.83	36.73	-1.66	-1.58	5.62		-1.66	-1.88	-1.86	-1.89	43.78		-1.0	B	-1.6	-1.
	262.11	5.53	36.18	41,29	6.18	5.78		-1.66	-1.08	7.29	637.88	43,31	ē. [,	15.2	14.8	3.6	43.0
	287.11	3,48	43.16	-1.88	-1.6	5.76		-1.60	-1.66	-1.88	-1.66	41.62	196861	9.1-	-1.4	1.1-	-1.6
	271.11	3,31	33.18	-1.88	-1.88	5.52		-1.88	1.68	-1.66	-1.61	38.98	1.6	-1.1	-7.9	-:-	-1.6
	337.11	5.81	28.74	-1.1	-1.00	5.31		-1.68	-1.68		1.10	37.86	9.1-	• · · ·	9.1-	-1.0	1.1-
	169.11	4.98	32,23	-1.06	e 8. I -	5.83		-1.11	-1.68	-1.88	-1.66	38,34	-1.6	P: 1-	4.1.	• •	-1.6
	361.18	2 .92	26.17	28.63	4.96	4.81		-1.66	-1.00	1.00	-1.66	29,54	. i . 6	-1.6	-1:-	1.1.	-1.6
	268.11	4.54	28.11	32.81	5.84	5.86		1.68	1,38	7,32	949.88	34.78	e.	-1.6	-1.0	• 1-	1.1-
	281.11	4.15	38.91	-	-1.1	5.72		-1.00	-1.08	-1.00	-1.06	35.89	9.1.	-1.0	l.!-	-1.0	-1:4
	272.11	6.76	32 ,39	36.54	6.29	6.33		-1.88	-1.68	-1.69	-1.88	34.25	9.1-	9.1-		1.1.	1.
	716.11	3.67	29.22	-1.1	-1.88	4.76		-1.88	10.1-	-1.60	-1.88	27.82	٠١.٩	4:1-	•1.1-		1.1
	467.88	3.18	28.49	35.49	4.61	4.87		-1.86	99.1-	-1.86	-1.88	27,23	12.8	9.1.	9. I -	 	•
	678.88	2 ,3 5	17.86	19.26	2,36	2 .32		-1.00	-1.60	7.75	348.88	18.15	-1.6	-1.1	-1.6	9. 1 -	• • • •
	565.11	2.14	17.63	1.1.	19.1-	2.68		-1.66	10.1-	-1.06	-1.69	23,18	-		-1.8	-1.6	4.1.
	265.11	9.58	3.23	11.1	-1.66	1 .32		-1.88	-1.00	-1.00	-1.60	16.95	1.6	9.1-	-1.	9.4	-
	136.00	: ·	81 . ?-		19.1-	-1.08		-1.00	-1.06	-1.00	-1.10	-1.68	-1.9	-1.6	-1.		
	11.999	1.90	12.12	15.73	1.47	1.52		2.94	1.94	7.83	296,11	17.84	-1.1	9.7-	•; -	1.	-1.0
	981.18	1.76	7.65	-1.64	11:1-	1.16		1.98	1.66	-1.1	99.1-	15.68	•• 	-1.4	1.1.	. · ·	9.1-
	446.11	3.48	14.85	-1.1	-1.11	2.00		-1.68	-1.00	8.85	353,88	25,42	- · ·	9. 7	-	• :-	-1.
	725.11	4.27	13.37	-1.1	11.11	2.37		-1.00	1.1-	-1.88	1.00	33.13	148.8	ę. <u>-</u>	-1.5		7

DATE	Z WATER	NGS	N. 4	NCKO	PCD	P 04	COL	Tes	SSA	'id	6,100	CL	CF(F)	*	δ	Ş.	14
'n	•	4.3.4		15.65	2.61	2.57	4.48	2.68	16.1	7.62	363.88	28.82	-1.0	9.1-	-1.1	-1.6	7
ĸ	338.00	5.77	11.66	-1.1	-1.1	2,31	-1.1	-1.8	-1.8	-1.6	-1.66	31.32		-1 · E	1.	1.1 -	7
-		3.81	14.29	-1.0	-1.6	3.00	5.48	-1.66	1.1.	8.84	451.68	33.22	-1:0	-1.6	-1.1	-1.6	7
=	••	9.63	12.74	18.24	3.42	3.78	-1.84	-1.88	-1.81	-1.86	-1.00	39.64	1.1.	1.1-	-1.6	-1.8	Ť
2	•	9.99	9.92	-1.86	-1.1	3.44	-1.1	2.10	1.70	7.58	435.86	33.59	234.6	8.9	16.4	3.5	29.
4		12.55	6.42	-1.1	-1.10	2,86	2,88	-1.96	1.98	7.54	436.00	42.42	-1.8	1.1.	• -	1.1	7
17	151.00	9.42	15.93	-1.0	-1.96	4.78	-1.88	4.58	3.98	-1.88	-1.88	39.65		-1.6	• · · ·	-1.1	7
r.	151,01	12.14	11.75	-1.00	-1.00	4.61	-1.66	-1.66	-1.68	-1.88	-1.88	38.26	#· I -	-1.6	÷.!-	-1.6	7
61	172.01	18.56	14.25	-1.0	-1.00	4.89	7.28	-1.06	-1.88	7.79	468.98	37.92	-1.0	-i •	- · ·	F. I.	-
21	198,861	8.14	14.16	-1.1	-1.08	4.88	6,38	-1.88	-1.88	7.91	440.38	36.29	-1.6	1.1	1 .1-	-1.6	7
24	81.18	14.82	8.82	-1.6	1.00	-1.69	-1.00	-1.66	-1.88	-1.88	-1.60	37.27	6.8	-1.0	. i .	-1.8	-
25	195.61	8.26	14.05	-1.1	19.1-	-1.80	-1.06	2.78	16.1	-1.00	-1.6	36.86	-1:0	1.1-	-1.0	-1.6	÷
2 ¢	163.	11.19	18.79	16.1-	-1.88	-1.80	4.48	10.1-	-1.06	7.14	436.98	37.61	-1.6	-1.6	-1.1	-1.8	7
27	164.00	11.81	5.18	-1.9	-1.66	-1.06	-1.86	-1.66	-1.08	-1.86	-1.08	35.93	٠١.۴	-1.1	9.1-	-1:4	÷
.28 AAY	115.00	11.47	2.14	-1.00	-1.86	-1.08	3,28	-1.44	-1.66	7.92	-1.06	35 .21	-I.	-1.6	-1.0	-1:	7
	127.11	11.34	9.89	13.10	2 • 22	-1.00	1.00	3.24	3,26	-1.06	-1.66	31.18	2.0	-1.6	-1.0	-1.6	÷
82	491.11	9.57	9.65	-1.11	99.1-	-1.00	-1.66	-1.00	-1.60	-1.66	-1.66	38.93	•::-	-1.0	-1.0	-1.0	-
m	88.11	9,53	8,52	-1.06	11.1-	-1.00	6.38	-1.66	-1.86	7.83	413.66	36.68	1.0	-i .	• 1-	9. -	÷
œ	131.00	2 ,38	1.13	-1.1	-1.00	-1.00	-1.00	-1.88	-1.66	-1.68	-1.66	19.1-	9.1-	1.1-	9.1-	£.1-	÷
Ø	218.00	4.67	18.49	-1.60	-1.00	-1.86	-1.86	-1.06	-1.06	-1.99	-1.98	-1.66	46.6	-1.6	-1. 6	-1.4	÷
<u>-</u>	192.00	6.29	11.98	11.66	4.58	-1.06	5.18	3,20	2.98	7.29	489.48	-1.16	-1.6	• -	•: !-	-1.6	÷
=	136.00	2.19	1.15	-1.0	99.1-	19.1-	-1:1	-1.66	-1.66	-1.68	-1.06	-1.86	•: 7	-1	4.1-	-:-	÷
<u>-</u>	81.00	18.86	4.84	6.67	3.22	-1.6	5.10	-1.66	-1.88	7.21	378.78	24.69	-1:0	6.8	18.9	4.7	36.
22	1.00	8.75	6.18	-1.0	-1.60	-1.00	-1.09	-1.88	-1.8	-1.8	-1.80	26.82	-: -		1.1.	-1.6	7
22	29.11	16.85	6.55	-1.1	-1.00	-1.19	-1.0	-1.00	-1.6	11.00	-1.00	26.94	- - -	• i · e	-1.6	•:-	7
23	86.88	12.84	11.77	11.72	5.16	-1.1	-1.1	-1.66	-1.08	-1.00	-1.68	-1.66	•: -	-1.1	-1.0	9.1-	÷
24	168.00	8.51	15.24	-I .	-1.0	-1.00	-1.1	-1.6	-1.1	7.72	434.38	32.68	-:	-1.0	•.1.	1.1.	;
25	111.00	7.79	8.6	-1.1	11.1-	-1.86	6.86	-1.6	-1.96	7,33	382.58	25,22	4. I		•: -	-1.6	-
2 v	126.11	8.16	8.46	19.1-	=::	-1.1-	7.48	-1.66	-1.6	7 ,89	394.51	18'92	-1.1	•••-	4.1-	-1.0	-

TABLE 7 PERCOLATE FROM SECONDARY SECTION 17 MAY 1977 - 31 MAY 1978

1,11 2,63 5,41 1,18	MTE	WA TER	303	A HZ	300	P(T)	Pr4	300	TSS	São	X.	COND	วเ	CF(F)	×	CA	ဋ	Ą
6.7.6 4.9.6 4.1.6 -1.8.6 <td>٠ س</td> <td>8.36</td> <td>17.8</td> <td>2.63</td> <td>5.41</td> <td>1.38</td> <td>-1.36</td> <td>-1.08</td> <td>-1.88</td> <td>-1.69</td> <td>7.63</td> <td>264.28</td> <td>26,15</td> <td>9-1-</td> <td>2. I</td> <td>3.1-</td> <td>-1.0</td> <td>-1-</td>	٠ س	8.36	17.8	2.63	5.41	1.38	-1.36	-1.08	-1.88	-1.69	7.63	264.28	26,15	9-1-	2. I	3.1-	-1.0	-1-
1.35 2.49 -1.86 -	(1) (1)	67.66	36.6	4.18	-1.38	34.1-	-1.88	. 90.1-	30° 1-	1.1.8	7.35	322.28	52.32	-1.6	1.1-	F. I.	g* !-	-1:
F.16 4.16 4.16 -1.09 -1	~	1.38	1.55	2.49	-1.88	-1.68	P. K.	9.1-	99°I-	-1.66	7.21	11.882	83.88	-1.8		-1.6	-1.8	7
4.66 C. 6.26 C. 777 -1.69 <	ec.	1 4 · E	8.42	2.54	3.88	13.5	-1.66	4.16	-1.64	-1.84	8.85	451.72	41.82	54.8	-1.6	e. [-	-1.6	-
F.55 1.56 -1.66 -1.66 -1.66 -1.66 -1.66 -1.66 -1.66 -1.66 -1.69 -	n		4.66	30.9	96.3	1.3	-1.88	13.1-	1.78	1.10	7.45	315.66	32,15	-1.8	ē. !-	1.1-	-1 · F	7
1.16 -1.26	ų	. 3	1.57	3.52	-1.08	-1.68	-1.88	-1.60	-1.93	-1.68	99.1-	-1.26	35.31	e: -	-1.6	1.1.	-1.9	7
17.00 1.00	=	1.91	2.25	37.4	-1.6	-1.38		-1.08	18.1-	-1.73	7.13	351.00	34.55	-1.6	-1.8	-1.6	1.1.	7
17.00 1.01 2.87 5.00 -1.00	23	9.19	2,33	1.25	1.04	\$ -74	-1.62	2.48	1.16	35.1-	-1.83	-1.60	33.66	6.A	٠١٠	-1.0	3.1-	÷
17.88	oc.	::	2.87	11.1	-1.88	88.1	-1.88	-1.63	-1.86	-1.28	-1.88	-1.00	33.76	-1.8	1.	٠	1.1	-
8.68 1.35 1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.89 -1	۔ ت	17.00	16.4	3.59	10.1-	-1.68	-1.88	-1.36	33.1-	-1.68	7.07	173.88	16,15	-1.0	.I.	-1.0	J. 1-	-
F.18 F.18 -1.88 -	ĸ	9.98	1.03	6.69	1 ,35	88.1	-1.88	-1.88	1.63	-1 • # 6	7.30	177.88	16,17	2.	-1.6	-1	#• I -	7
6.86 1.86 -	7	1.1	1.88	20.4	-1.86	-1.06	-1.66	2.48	-1.68	-1.08	-1.58	-1.68	16.84	- ا ، ق	-1.6	-1.6	-1.6	7
9.88 1.27 6.82 -1.86 -1	_	::	1.88	96.9	-1.46	-1.68	34. !-	-1.88	-1.88	f.12	7.25	177.88	16,38	-1.6	g. [-	-1.5	٠١.۴	7
6.38 1.27 6.82 6.98 6.56 1.85 -1.86	m	1.1	1.81	W.12	-1.88	-1.68	-1.88	-1.83	33.1-	. I .	1 . 1 .	-1.88	16.35	1 .	-1.6	-1.8	0.1-	1-1.
38.86 1.66 1.38 -1.86 -	4	\$. 36	1.27		B 6. 9	35.3	1.85	-1.96	-1.68	-1.68	-1.88	13.1-	18.14	-1.0	-1.6	٠ ٢ -	٠١.	7
E.25 P.25 -1.00 -	ur.	38.86	1.68	1.39	-1.98	33.1-	-1.40	-1.88	-1.00	-1.68	-1.88	-1.68	23.98	2.1-	-1.6	-1.1	-1.6	Ť
E.35 -1.85 -1.86	œ	e:	2.35	P. 23.	-1.00	10.1-	-1.42	-1.03	1.96	. I - 8.	-1.88	-1.68	23,84	E) .	٠. ١-	٠, ١-	-1.6	7
E.66 2.53 -1.09 -	رب د	80.9	2.37	6.	-1.62	-1.5	1.61	-1.38	82.1-	13.1-	7.00	311.00	24.92	9.	-I.	1.	-١٠۴	7
6.86 2.49 -1.06 -	•	99.9	2 ,53	7.12	1.38	2.31	-1.69	-1.66	-1.68	-1.99	-1.06	23.1-	24.44	-1.6	٠: ١-	;. :-	÷.	7
8.88 5.55 6.35 -1.07 -1.77 -1.88 -1.09 -1.09 -1.09 -1.00 -1.07 20.81 8.88 5.59 6.35 -1.07 -1.07 1.82 -1.08 -1.09 -1.00 -1.00 -1.00 47.87 8.88 3.53 3.39 -1.07 -1.07 -1.00 4.10 1.05 -1.00 1.00 33.82 8.88 3.53 3.39 -1.07 -1.00 -1.00 -1.00 -1.00 1.00 4.00 58.55 8.88 1.83 7.16 1.25 2.52 -1.00 -1.00 -1.00 1.00 1.00 58.55	_	88. 2	2.49		-1.18	-1.36	-1.66	2.19	-1.60	-1.68	11.88	-1.68	24.81	-1.6	-1.6	-1.5	-1.1	7
8.88 4.35 7.43 -1.07 -1.07 1.82 -1.88 -1.06 -1.05 -1.00 40.56 8.35 -1.07 1.02 -1.09 1.06 -1.00 40.56 8.36 8.38 3.39 -1.07 -1.02 -1.00 4.10 1.65 -1.01 7.35 537.02 44.56 8.38 3.35 -1.07 -1.02 -1.00 1.00 1.00 1.00 1.00 33.33 8.30 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	N	8	2.16	000	21.1-	33.1-	-1.72	-1.88	-1.00	-1.68	-1.68	-1.66	18.35	2.1-	1.1-	٦. ١-	٠. ١٠	7
8.38 4.35 7.43 -1.07 -1.08 -1.06 -1.06 -1.07 -1.02 -1.02 -1.06 -1	u	\$ 8 ° 3	5.55	6.35	33°I-	-1.68	-1.66	-1.88	-1.66	33.1-	-1.88	12.1-	47.55	٩.1-	s. I.	9.1-	-1 · B	7
8.38 3.53 3.39 -1.00 -1.00 -1.00 4.10 1.65 -1.00 -1.00 33.82 8.80 4.57 2.00 2.56 3.35 -1.00 -1.00 -1.00 -1.00 1.00 33.33 8.80 1.83 7.16 1.29 2.52 -1.00 -1.00 -1.00 1.00 1.00 5.59 6.54 -1.00 5.59 6.54 -1.00 -1.00 5.59	~	80.8	4.3 €	7.43	20.1-	72.1-	1.82	-1.63	11.1-	15.1-	7.35	537.68	44.SE	*:	-1.8	٦٠١-	-1.3	7
6.82 4.57 2.00 2.9K 3.35 -1.00 -1.00 -1.00 -1.00 -1.00 33.33 6.80 1.83 7.1K 1.29 2.52 -1.00 -1.00 -1.00 -1.00 -1.00 5.59 6.54 -1.00 5.59 6.54 -1.00 5.59	بو	36.8	3,53	3,39	-1.63	-1.28	-1.63	19.1-	4.18	5.	18.1-	3::-	33,82	-1.6	٠١٠	١- ١-	-1.6	7
6.88 1.83 F.16 1.25 2.52 -1.78 -1.88 -1.88 -1.89 7.85 392.88 40.65	0, 5	63 63 63	4.57	20.2	38.5	3.35	-1.96	-1.00	-1.63	-1.58	-1.66	20.1-	33,33	-1 -6	-1.6	-۱ . د	-1.5	7
5.20 9.54 1.10 1.00 1.00 1.00 1.00 1.00 1.00 1.0	20,	23.9	1.83	1.16	1.25	25.5	-1.68	-1.00	92.1-	-1.68	7.85	392.68	40.69	-1.6	٠. ١	٠١-	٠	7
	N	14.38	5.59	4.54	-1.88	-1.00	-1.08	-1.02	-1.00	. I -	-1.20	-1.66	55.53	- ۱ ، و	٠١٠	ē. I -	٠. ١-	7

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٤	-1.3	-1	.1.	-1:	. I •	-1.5	6.1-	-1.6	-1.0	-1.6	-1.5	-1.6	-1.6	1.1-		-	-1.5		-1.5	-
ชอ	-1.0	· · · ·		 	-1 • :	ī. I-		7	J. I	-1.6	-1.6	-1 • €	-1.	-1-	-1.0	-1 • ;	-1.	-1.1	·:-	-1.
×	-1.8	J.1-	-1.6	-1 • C	-1.	3° i -	e:	- I -	-1.8	-1.6	-1 • E	9. [-	-1.	-1.5	-1.	·• -	· ·	1.1-	7	-
CF(F)	3.1-	٠1.	3.1-		1.	-	J. ! -	-1.8	67 E7	9.1-	-1.0	-1.6	E .	F: 1-	-1.6	F: -1 -	٠١٠،			·: -
CIT	12.1-	65.18	45.15	56.93	45.75	47.67	43.56	46.21	58.55	64. 23	33.66	11.1-	41.45	41.38	37.66	41.55	46.51		-1.63	-1.76
2300))°[-	99.1-	34.593		52 K. 8?	-1.f8	381.66	487.38	33.1-	-1.00	818.00	-1.68	534.00	19.1-	-1.66	-1.66	-1.68	-1.66	-1.60	-1.00
£	-1.68	-1.80	7,95	-1.80	7.85	-1.86	7.81	7,55	-1.66	-1.68	7.85	- ۱ . ۱ ژ	35.4	-1.86	-1.88	-1.08	-1.63	10.1-	-1.68	- ۱ . ۴ ۲
VSS	13.1-	11.66	36.1-	-1.68	11.1-	-1.26	-1.00	16.1-	9j.[-	-1.53	-1.36	-1.66	-1.00	12.1-	1.1.	-1.33	34.1-	23.1-	-1•يو	-1.66
TSS	-ا . بال	-1.42	36.1-	-1.86	-1.88	-1.96	-1.6?	-1.62	-1.88	-1.88	-1.04	-1.66	-1.86	-1.66	-1.00	18.1-	-1.60	-1.00	-1.63	-1.28
300	-1.62	-1.38	- I - B3	-1.63	-1.36	-1.69	-1.69	-1.66	2 · K	19.1-	-1.68	65 65	2.26	-1.66	-1.88	-1.68	-1.68	-1.86	33.1-	-1.82
Pod	-1.29	-1.36	-1.53	€ € • T •	-1.68	J : • 1 •	.1.66	-1 . f £	-1.4		-1.06	-1.68	-1.88	-1.66	-1.68	-1 .f A		-1.68	-1.96	-1 • 6 2
P. D.	30°I-	-1.66	-1.68	-1.67	.13	-1.68	19.1-	35.	-1.66	-1.69	1.05	-1.32	95°I-	-1.62	-1.69	-1.86	-1.86	-1.20	93·1-	-1.28
#CK)	-1.80	-1.66	-1.63	-1.88	1.77	-1.95	15.1-	1.38	-1	-1.56	1.26	-1 • د ۶	-1.82	-1.88	-1.96	-1.63	-1.28	-1.66	-1.88	-1.64
444	-1.33	1.13	-1.33		3 6.3 6	P.46		33.4	.21	P.12	e e e e	-1.00	£1.13	1.14	8.14	1.54	F.4.	-1.66	6.63	91.9
និ	-1.26	7.31	٤.46	7.85	8.67	96.6	10.25	9.73	9.14	7.55	9.76	-1.66	3.87	4.89	3.12	3.56	3.56	-1.66	5.25	9 2° y
WATER	3.33	6.69	e.	16.9	1.86	1.36	35 e 18 e	1.83	3.36	36.4	36.9			32.6	11.63	9.38		-1.68	1.63	e .
25 TE	8	6	6 :	S 12 5	it-	v	13	4	12	١ و	·.	c:	ည်း မာဇ	27	83	31) - 2	m	Ø	13

					! -		THE MALES AFFERD TO CONTROL SECTION										;
DATE	WATER	808	₹	NCK)	P(T)	P04	800	TSS	ves	*	COND	<u>ن</u> ا	CFCF)	¥	₹0	2	¥2
ΑΑΥ 1.7	318.86	=:-	-	13.1	8.	1.1.	1.00	=	= -	6.79	19.61	5.77	F. 7			-1.0	-1
<u>eo</u>	313,66	:	1.15	1.25	1.25	-1.8	-	-	-1.1	7.7	141.0	5.44	1.1.	-: -	-: -:	- : -	-:
23	268.11	:	:	1.54	15.1	-1.1	-1.1	1.1-		6.36	19.61	5.76	-1.8	-:-	-1.6	1.	-1:-
2	331.60			19.0	151	-1.0	-1.11	-	11.11	6.83	89.88	5.62	• · · ·	-1:-	-: -	-: -	
, <u>, , , , , , , , , , , , , , , , , , </u>	268,11		-1.8	18.4	1.51	. · ·	-1.1	1.1.	16.1-	6.55	86.11	4.97	-1.1	-1.	9: 1-		-1.6
	314.6	::	:	6.33	1.25	-1.1	÷	11.1-	-1.8	-1.80	19.1-	5.98	-1.5	-1.6	-1.1	-:-	-1.
Ę	318.00	1.1	:	1.37	1,25	1.1-	17.1-	2.2	9.0	6.95	79.88	6.14	-1.1	-1:-	• · ·		3. I -
JUNE -	226.11	:	:	1.29	1.24	-1.6	-	10.1.	1.1.	6.95	16.88	6.97	-1.6	1.1.	•· ·-	-1.6	-1.8
8	294.11	:		11.1-	1.1.	1.1-	1.1-	-1.0	-1.8	7.65	77.88	5.77	-	-1:1-	-1.0	-1.6	-1.1
.	243.00	:	-:	-1.0	-1.6	-1.0	-	-1.60	-1.66	7.68	75.00	5,69	•· I-	-1.6		-1.6	-1.4
œ	221.11		1.25	:	15.1	::	1.84	-1.86	10.1-	7.88	78.86	6,11		-1.	-1.0	• 1 •	1.0
13	253.11		1.25	-1.6	-1.1	-1.6	-1.1	-1.00	1.1.	6.78	78.88	5.47	-1.	-1.0	-1.6	-1.0	-1.6
7	232,00	1.1	1.25	-1.1	-1.1	-1.0	-1.1	11.1-	1.20	-1.66	-1.00	6.42	-1:0	r. 1	3.7	1.2	6.1
<u>\$</u> 42	249.06			89.1	88.	11.1-	=-1-	16.1-	-1.88	11.1-	1.0	4.75	-1.1	-1.8	1.1.	•: ··	-1.
<u>¥</u>	329.00		:	-1.1	-1.00	-1.1	-	1.1.	-1.0	-1.1	-1.8	5.23	:	1.1.	-1.8	9.1.	
12	281.69		1.19	1:1-	-1.8	1.1.	-1.1	-1.0	-1.1	6.60	77.08	5.79	1:1-	-1.6	-1.4	1.1-	-:-
25	324.00		-1.0	1,54	1.37	1.1-	-1.1	-1.08	-1.1	-1.00	-1.66	-1.00	-1.6	9. 1-	-1.	7	
23	2 78 . 11	::		-1.1	-1.8	-1.8	121	1.1.	-1.06	1.1-	11.11	18.9	1.	-1:	-1.0		. i.
27	389.88	•	•	1.1	-1.6	-1.8	1.1-	99.1-	10.1-	-1.5	-1.00	5.37	-1.6	÷. :-	-1.5	-1 · 0	-1.
25	196.11		:	1.1.	1.1.	-1.06	-1.11	-1.1	-1:	-1.80	-1.00	5.43	-1.6	9. I-	-1.1	-1.6	-1.4
36	343.01		17.4	-1.8	-1.60	-1.1	1.1.	-1.00	1.1-	7.24	78.00	5.28	-1:	-1.0	9. 1-	•. -	-1.6
Jery *	11.11	:	::	-1.6	-1.66	-1.	1.1.	19.1-	-1.15	-1.88	.1.88	5.66	-1.8	-1.1	-1.4	-1.1	-1.4
7	399.11	::	1.17	-1.	-1.1	1.1-	=:	1.1.	-1.1	10° I -	-1.00	5.83	0.0	 	-1.6	-	
=	265.88	:	1.15	-1.	-1.1	1.1.	-1.11	-1.80	1.64	6.65	81.66	6.13	1.1.	9. ! -	e. I.	P. ?-	7
13	225.11	1.1	:	-1.86	-1.68	19.1-	19.1-	-1.0	1.1-	1.69	16.1-	5.25	1.1.	1.1.	1.1-	9.1.	
-	318.86	:		-1.16	-1.86	11.1-	-1.1	1.1-	-1.60	1.86	-1.06	5.48	•: 1-	.1.	-1.0	-1.8	• · · · · · · · · · · · · · · · · · · ·
52	344.88		1.1	1.1-	-1.00	-1.46	-1.18	-1.00	99.1-	-1.88	-1.08	5.47	a	£	-1.0	-1 ·	• · · · · · · · · · · · · · · · · · · ·
<u>sc</u>	302.00	1.13	1.25	-1.0	10.1-	-1.6	-1.6	-1.88	-1.08	7.88	81.68	5.47	. i .		-1.0	• i •	
61	299.11	Ī	1.25	-1.0	-1.16	-1.00	-1.68	-1.00	-1.0	-1.80	-1.08	5.59		7	1.1-	-1.	
21	316.00	:	:	1.6	-1.88	-1.96	10.0	1.1-	. i.	19.1-	-1.80	5.49		. i .	-1.	-1.	-1.

22.80	DATE MATER	NG.	EH 4	SCKO	PCD	P04	608	S 21:	SSA	96	0.000	5	C FCF)	N.	V D	نو	4.3
2.2	245.00	6.49	:	-1.0	1.1	11.0	-1 • 6 t	-1.00	-1.69	1.66	-1.68	7.56	-1.8	j. [-	-	9. 7-	7.
5 2	342.11	1.16	1.11	-1.11	96.1-	-1.9	-1.96	-1.88	-1.88	-1.89	-1.88	6.18	e. i -	-1.6	- i . f	-1.6	-1.6
27	333.00	.12		-1.6	-1.1	-1.5	-1.60	-1.08	-1.68	-1.68	-1.08	6.28	9.1.	9.1.	-1.6	-1.6	-1-
61 00	325,00	61.1	::	-1.0	-1.88	-1.1	-1.69	1.68	1.45	-1.88	-1.68	6.48	-1.6	9.1.	1.	-1.6	-1.
52	286.86	.03	::	1,12	1.25	-	-1.8	-1.60	99.1-	7.15	17.28	6.15	-1 • B	9.1-	-1.6	-1.	-1.6
A UG	314.88		1.18	-1.68	-1.08	-1.86	-1.68	-1.88	-1.88	7.25	83.88	6.48	٠: -	٠١٠	÷. ;	-1.6	4. I
*	647.88	4.0	1.16	9.26	1.25	-1.00	-1.88	-1.00	-1.88	-1.60	-1.86	6.33	-1 · 6	9. 1.	-1.	-1.0	-1.
ø	598.86	1.17	14.0	6.59	9.46	-1.86	-1.80	-1.68	-1.60	7.58	85.46	8.37	-1.8	9.1-	-1.5	-1-	-1.4
Ξ	349,88	1.18	12.1	-1.6	-1.68	-1.08	-1.66	-1.68	-1.40	-1.86	-1.08	6.24	-I .e	11.8	-i . B	-1.6	-1.6
8	617.18	:	1.13	1.54	6.49	-1.98	8. 78	-1.00	-1.08	7.55	86.88	9.57	j. i.	1.08	•· i -	-1.6	-1.
13	294.11		9.0	-1.88	-1.88	-1.60	-1.0	-1.96	-1.00	-1.00	-1.00	8.47	-1.0	9.1-	-I -	-1.6	-1.
24	611.11	1.1	6.84	-1.88	-1.88	-1.68	-1.88	36.8	6.42	7.30	85.00	6.34	-1.6	1.6	P. I.	9.1-	#* I -
ψ. 63	\$65.11		1.14	99.8	6.25	-1.86	-i .06	-1.60	-1.00	-1.00	-1.00	6.71	9. !-	-1.0	-1 -	-1.6	-1.1
1000	652.11	9.83	= -	-1.89	-1.00	- i . 8 6	-1.86	-1.68	-1.08	-1.68	-1.00	8.36	٠١.	9. !-	-1.6	-1.0	-1.6
	649.00	::		6.33	6.49	-1.64	1.08	-1.68	-1.68	7.20	84.08	6.48	e. [-	1.5	3,3	1.3	8.8
۲۰	611.10	• •	10.1	9 .28	6,28	-1.00	-1.00	4.18	1.12	7.88	83.80	7.27	· i • B	-1.0	-1.8	-1.6	1.1.
=	322.11	10.0	1.17	-1.48	-1.68	-1.68	-1.68	-1.98	-1.00	-1.00	-1.88	8.39	-1 ، و	9.1-	-1.6	-1.6	-1.6
13	10.165	-	41.1	-1.8	-1.08	-1.66	-1.08	-1.68	-1.00	8.89	233,00	7.84	-1.6	9.1-	-1.8	-1.6	-1.6
13	299.01	1.12	1.1	9.0	9.0	-1.8	0.40	-1.88	-1.86	-1.68	-1.86	4.34		9. !-	-1.6	1 .	-1.0
16	342.11	:	::	-1.00	-1.66	-1.80	-1.58	-1.00	-1.68	30.1-	-1.00	4.39	٠: -	-1.0	-1.6	-1.6	-1.6
C1 £1	319.00	:	1.16	1.1	1.87	-1.8	-1.88	-1.00	-1.66	7.25	164.00	6.57	9. 1-	6. 7	-1.8	-1.5	1.1-
23	617.66	1.1	6.13	1.10	-1.68	-1.66	-1.86	- F. B B	-1.86	-1.66	-1.68	7.95	<u>.</u> .	-1 ·	-1. 0	-1.	-1.
32	517.00	1.13	6.45	-1.1	-1.06	-1.66	-1.08	-1.66	-1.88	7.81	89.68	7.86	-:	-1.1	-1	-1.6	1.1-
29	237.00	:	4.8	-1.66	1.1.	-1.06	-1 • 6 B	-1.96	-1.66	-1.08	-1.90	7.39	-1.6	9.1-	-i ·		-1.
33	348.00	=	1.15	1.11	6.25	-1.8	8.68	-1.88	-1.86	-1.89	-1.69	7.39	•••	8.1-	-1.6	6.1-	
136 137 137	663.11		1.25	9.35	1.27	-1.66	-1.64	-1.00	-1.86	7.18	18.00	8.97	-1.6	-1.0	-1.9	-1.4	-1.6
ų	655.11		15.1	-1.90	-1.6	-1.86	-1.06	-1.60	-1.00	7.48	18.86	7.86	7	9.1.	-1:	#· 1-	-1.6
12	651.88	1.12	15.1	9.31	1.25	-1.86	-1.1	-1.08	-1.88	6.95	87.66	7.65	-1.6	1.1.	-:-	-:-	-1.1
1.4	175.88	1.84	9.38	1.32	8.37	-1.06	-1.08	-1.00	-1.86	7.65	85.68	8.56	9:1-	•: !-	-1:-	4. 1 -	-1.4
61	324.66	1.12	98.	1.21	.37	1.1.	-1.68	1.68	-1.88	6.48	85.88	6.92	-1.6	-1.	-1:-	-1.6	-1.6

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3	

27.00	. WATER	NOS	NH 4	NCK)	PCT	P.0.4	300	TSS	SSA	PH	Cond	5	CF(F)	×	CA	92	# ¥
28	202.11	1.14	•••	10.1-	1.1-	-1.6	=	7.	-1.68	7.48	83.68	6.85		-1.6	-1.6	-1.4	-
27	295,11	.i.	-1.1	-1.1	-1:-		-1.1	-1.64	-1.61	-1.80	-1.1	14.59	7:	7.7	-:-	-i	-1.
82	388.88	1.13		-:	-1.1	-	-1.1		1.1-	1.1-	-1.6	8.64	•: -	1.1-	•, 1-	-1.4	-1.1
7	259.00	1.19	6.43	-1.11	-1.1	1.1.	-1.6	1.1.	1.1.	-1.11	-1.86	8.45	-:	1.1-	-:-	-:-	-1.1
} -	258.11			-1.1	-1.1	-1.0		-1.6	1.1-	-1.11	-1.11	7.13		-1.4	9.1-	•· I-	-1:-
N	245.00	1.16	:	-1.1	-1.1	-1.1	-1.6	11.1-	-1.00	-1.11	-1.00	6.81		-: -	1.1-	-1.6	-1.0
•	255.11		:	-1.5	-1.1	-1.1-	-1.1	18.	18.1	18.7	84.66	-1.86	7: -	9. 1-	-1.1	j. j.	-1.5
~	318.00		1.11	-1.8	-1.15	-1.1	-1.0	-1.00	::-	7.98	86.11	7.47	7:1-	1.5	3.7	1.2	10.3
86	251,60	1.13	::	1.29	1.42	i.i.	-	-:	-1.88	-1.88	-1.60	-1.64	•••		-1.0		9.1-
ø	325.00	:			1.42	-i.	::	19.1	18.	10.1.	19.1-	-1.11	-: -:	-:-	• 1 -	•:-	-1.6
=	329.11	1.13		-1.1	-1.11	-1.18	-1.1	-1.89	19.1-	-1.88	11,88	-1.01		-1.0	1.1-	1.1-	9· I -
7	213.00	3.		1.48	1.56	.	-1.1	-1.59	-1.80	7.15	83,88	8.57	-1:-	-1.6	5 .1.	9.1-	-1.8
5	314.00	:	:	-1:1-	-1.1	:	-1.68	-1.0	-1.88	1.1.	11.11	-1.68	-1.4	-1:-	-1 ·#	9.1-	1.1.
16	300.00		:	-1.0	-1.00	-1.1	1.51	1.11	9.0	-1.00	-1.86	-1,11	9. I -	1:1-	4.1.	.	-1.6
17	267.00		1.1	-	-1.1	-1.86	-1.80	-1.80	-1.66	-1.86	11:1-	-1.00	÷.	-1.6	-1.6	•. [-	•1.1-
18	273.00	::		-1.0	-1.1	-1.1	-1.1	11.1-	-1.66	-1,11	1.64	7 . 4 B	• • •	1.1-	-1.6	-1.4	.1.
2	273.00	1.17	:	-1.1	-1.1	-1.1	-1.1	-1.88	-1.11	-1.56	-1.88	5.81	-1.6	-1.6	-1.1	· · ·	-1:0
22	119.00	1.12		•••	:	-1.1	-1.1	-1.66	-1.16	7.25	82.66	6.16	1:1-	1.1.	9.1.	-1.6	-1.6
23	278.88	-1.0	-1.1		-1.1	-1.0	-1.0	1.3	9.38	-1.6	10.1-	-1.86	-1.0	+: -	-1.0	9. I.	-1.6
5€	178.00	:	:	:	9.46	-1.6	7	-1.00	11.11	-1.06	-1.48	5.85	-1:		1.1-	4.1.	-1.6
88	451.11	::	:	-1.1	-1.0	-1.8	-1:1	-1.00	1.1-	1.1.	-1.88	6.19	÷::-	•:	-1.1	1.1.	-1:1-
53	316.88	:	::	-1.1	-1.1	-1.1	-1.00	11.11	-1.69	1.24	11.69	6.28	-1.	9.1-	1.1-	-1:1-	-1.
36	360.01	1.1-	-1.8	-1.1	1.1.	-1:1	-1.1	19.1	1.54	1.1.	-1.00	-1.00	-1.6	9. I -	•:	-1:-	-:
ਮੂ-	240.11		1.1-	-1.1	1.1-	-	-1.11	\$9.8	19.4	11:11	-1.00	11.1-	•: !-	9.1-	-:-	-1.6	-1:-
c,	310.00	1.13	:	1.32	1.58	11:1-	-1.88	-1.00	11.11	11.11	-1.1	6.44	P. 1-	* : -	•· ·-	9. 1-	-1.
1 0	133.00	1.1	61.1	-1.1	-1.0	-1.1		1.1-	-1.86	7.15	82.11	7.42	-1:0	1.1-	-1:1-	-:	-1.8
ĸ	445.11	91.1	8.83	-1.1	-1,1	= -	-1.6	-1.00	19.1-	-1.0	-1.00	62.9	-1.1	•. 1.	9.1-		-1:
w	281.00	:	1.16	1.13	18.1		-1.1	-1.11	19.1-	6.48	83.66	59.65	::	-1.8	•: -	٠.٠	-1.1
S	337.00	1.15		1.1-	7.19	-1:1	-1.00	11:1-	-1.66	6.75	83.11	-1.1	·:-	1.1-	-1.6	1 .1.	-1.4
₹.	351.60	1.17	61.1	::	16.1	-1.6	-1.1	11.1-	-1.68	6.58	84.88	19.1-	1.1.	.:-	-	-1.6	-1:

								-	TABLE 0 CONT.						į	ç	دا 3 :
	CL TOO NES DE COND CL						6	Ę	550	£.	COND	บ	COND OL SF(F)	×		į	
4	WATER	133	4 4%	ECK)	PCT)	30 A	200	201			.,				•		-1.5
						•		10.1-	40.1- 40.1- 60.1-	-1.11	-1.6	5.72	•	•		•	:
2	312.00	=	-	-					:	19.1-	18.1-	6,33	-1.1		-1.0	• • •	• -
٧.	328.00	1.12	=:	·1.0	: · ·	5.				:	;	,	•	1.	•••	-1.0	1 .1-
		•	;	:	17.	11.1-	-1.00		1			6,15	:	•	•	•	•
2.1	322.11	-			•			11.	-1.56	\$6° S	85.68	÷:-	-1.5	-1.1	•:-		•
22	223.11	91.1	1.1	1.7	7				:			7	9.1-	9.1-	-1.1	-1.6	-: -:
		1.16	=.		-1:1		= -	= -					;	•	•		9.1-
S		•			,,,	11.11	-1.11	-1,88	-1.88	1,1	-1.6		-:	•	•	•	
28	135.60	=:-	=				**	•	19.1.			6.11	8.1-	F. 1-	4.1-	-: :-	
	2 6			•	***	-	P .										

TABLE 9 RUNOFF FROM CONTROL SECTION 17 MAY 1977 - 31 MAY 1978	
9 RUNOFF FROM CONTROL SECTION 17 MAY 1977 -	1978
9 RUNOFF FROM CONTROL SECTION 17 MAY 1977 -	HAY
9 RUNDFF FROM CONTROL SECTION 17 MAY	3
9 RUNDFF FROM CONTROL SECTION 17 MAY	1
9 RUNOFF FROM CONTROL SECTION 17	1977
9 RUNOFF FROM CONTROL S	¥
9 RUNOFF FROM CONTROL S	17
9 RUNOFF FROM CONTROL S	
9 RUNOFF FROM (SECTION
9 RUNOFF	CONTROL
8	PROM
TABLE 9	RUNOFF
	TABLE 9

					i												
24 TE	WA TER	NO.	4 4	NCK)	PCT	P04	вор	TSS	vss	H.	COND	CL	CF(F)	× .	CA	Ę	٨×
¥ 61	114.00	18.0		1.21	6.18		1.1.	-1.1	19.1-	6.95	264.98	41.16	.	-1.6	-1.6	7	7.
SUL	•		:	-1.0	-1.	11.1-	-1.66	14.1-	-1.58	7.45	346.99	38,21	9.1-	7.	-1.8	-1	-1.1
, ,		=	61.1	-1.5	-1.0	-1.80	-1.1	-1.80	-1.86	7.48	296.88	36,22		-1.0	-1.6	- 7 -	-1.8
. α	-	-	12.	1.37	11.1	-1.86	2.4	99° j-	-1.68	7.75	266.88	24.92	· ·	9. 1-	1.1.	-1.0	
	221.00	88		86.4	1.26	1.1.	-	12.60	3.78	7.65	255.00	22,34	-1.8	7.9	34,8	8.4	6.5
. <u> </u>	188			-1.00	-1.80	1.00	-1.11	-1.68	-1.88	-1.88	-1.68	6.28	-1.8	9. 1-	6.	-1.6	7
	-		.21	-1.50	-1.66	-1.00	10.1-	-1.66	-1.88	1.20	194.461	11,33	-1.0	•: }-	-1.6	-1.	1.1.
7.5	Ą	9.18		1.63	1.25	-1.06	2.01	19.1-	-1.08	-1.08	-1.88	14.21	7.8	•: i-	• -	-1.6	-1.0
28		1.31	1.6	-1.0	9.24	-1.98	11.06	1.73	1.67	-1.86	-1,88	18.37	9.1-	9. :-	·:-	-1.6	-1.6
70°C		4.46	1.49	-1.00	-1.86	-1.86	11.16	-1.98	-1.86	7.68	194.66	8.95	9.1-	4. [-	<u>.</u> .	1.1	-1.6
ų.		1.6.1	1.15	18.0	1.24	-1.68	11:1-	-1.00	-1.00	7.85	289.88	9,68	8.4	-1.	-1:1-	-1.6	-1.6
	99.11	-	81.8	-1.66	-1.68	-1.68	2,58	-1.00	-1.00	-1.06	-1.68	7.67	9.1-	4.1.	-1.6	9. 1 -	-1.
~4	121 .88	6.35	9.0	1.1.	89.1-	99.1-	-1.98	1.88	8.48	7.48	252.00	22.66	-1.8	9. [-	-1.6	9.1.	-1.6
53		1.46	9.0	-1.68	-1.69	-1.88	-1.88	-1.99	-1.88	1.88	99.1-	21.58	-1.8	9.1-	-1.6	9. I.	
14		6.65	9.9	1.13	8.24	-1.88	-1.68	-1.06	-1.68	-1.88	-1.66	15.79	-1.9	-1.8	-1.0	-1.8	
ī,	181.60	9.81	6.67	-1.66	-1.88	-1.89	-1.86	-1.88	-1.00	-1.88	-1.98	56.28	9.1-	-1.6	-1.6	-1.1-	7.
81		1.24	6.25	-1.98	-1.88	-1.69	-1.68	-1.66	-1.68	-1.98	-1.88	96.9	6.03	-1.8	٠١-	e•:-	-1.6
18	56.00	6,15	6.25	-1.68	-1.68	-1.00	-1.00	-1.60	-1.88	7.65	188.88	10.52	9 · I -	1.1	¥. i-	-1.0	-1.6
23	_	1.15	6.25	6.65	99.9	-1.80	19.1-	-1.58	-1.99	-1.88	-1.08	8.26	- I • B	-1.8	-1.4	-1.8	1.1.
2.1	:	1.26	84.	-1.68	-1.68	-1.86	6.79	-1.88	1.50	-1.88	-1.60	8.89	-1.0	ø. 1-	-1 ·e	-1.6	-1.
22	210.00	1.16		-1.98	1.88	98.1-	19.1-	99.1-	-1.68	-1.88	-1.88	68.18	-1.0	-1.8	-1.t	-1.1	F. [-
2.5		9.46		-1.66	.1.88	-1.68	-1.60	-1.68	-1.88	-1.88	-1.00	17.62	-1.0	5. I •	a• 	J. I	- :
5.		9.46	9.9	-1.86	-1.68	99.11	00-1-	16.1-	-1.88	7.50	212.06	13,39	-1.0	-1.6	-1.9	-1.6	-1.6
80		1.15	9.	88.1.	-1.88	83.1-	88"\-	2.85	1.78	-1.88	-1.88	16.75	g* 1-	-1.8	. i .	1.	J. 1 -
88	185,11	6.15		9.49	1.12	-1.36	-1.88	-1.88	-1.00	-1.98	-1.86	10.75	-1.6	-1.0	6:1-	-1.6	٠٠.۴
A US	187.88	9.18	9.36	-1.98	-1.86	-1.68	- 1 - 68	-1.68	-1,86	8.85	191.66	12.14	-1.8	-1.8	٠١.٩	-1.6	1.1.
a,	213.80	1.12	12.1	-1.88	-1.00	- 3.88	-1.88	-1.88	-1.08	-1.66	-1.88	2.97	488.8	-1.6	-1.5	8. ! -	1.1.
cn	488.69	8.17	6.65	18.1	81.8	-1.68	-1.88	-1.88	-1.86	7.65	221.08	12.17	-1.8	-1.0	9· I -	-1.6	1.1.8
12	771.88	9.16	8.18	1.86	-1.68	-1.88	-1.88	-1.88	-1.88	-1.08	-1.00	23,94	٠٠٠	-1.6	#. 	-1.6	-1.
<u> </u>	387.88	9.85	9.89	-1.68	 84	-1.88	1.50	-1.88	-1.68	8.28	186.88	11.43	e. 1.	9·1-	-1. 6	P. 1 -	

									TABLE 9 CONT.	NT.							
35 AC	WATER	NO3	3H.4	NCK)	P(T)	P04	30p	TSS	SSA	Hd.	COND	CL	CF(F)	×	CA	٥	:
6.	161.18	94.1	11.0		=:-	-1.00	-1.	1.1.	-1.00	-1.66	11.1-	96.6	9.1-	-1.1	9.1-	9.1-	
2.4	24.	:	15.0	1.31	1,25	1.1.	1.1-	14.	-1.90	1.78	199.661	11,84	9. 1-	9. 1-	÷••	-i.	
ري ز	388.88		1.67	1.1.	1.1.	1.1.	1.1.	-1.86	-1.68	-1.98	-1.08	8.70	· · ·	-	9. -	9.1-	
38	312.11	1.12	:	-1.1	-1.00	1.11	-1.0	1.1-	-1.66	-1.08	-1.86	8.49		-1.0	-i .e	-1.0	
SEPT	423.00		.13	-1.1	1.1.	-1.68	1.64	11.1-	-1.00	7.98	172.00	7.45	25.8	1:1	17.1	3.6	
. ^	205.00	1.13	::	6.63	1.37	99.1-	-1.1	6.48	8.8	8.15	148.88	8.88	.1.8	- · ·	- -	• -	
. ø	371.00		1.15	F. 1-	11.1-	11.14	::	-1.8	-1.88	-1.66	-1.08	10.67	• I •	9.1-	• -	-1.0	
~	489.11		61.1	1.1.	-1.1	1.1.	-1.1	-1.00	-1.68	8.15	386.88	19.47	J	-1.8	¥. ï-	9:	
4	624.11	1.02	:	9.76	65.1	-1.88	1.1.	-1.08	-1.66	7.75	238.88	28.34	-1.8	#2·		e. : -	
. <u>.</u>	184.00			1.00	11.1-	-1.6	1.48	-1.88	-1.68	99.1-	-1.06	8.38	8° 2	· :-	6. I-	• 1 • 0	
<u> </u>	282.11	::	::	-1.80	-1.1	-1.86	11.1-	-1.66	-1.64	-1.68	-1.68	7.54	-1.6	- - -	#· I -	9.	
. 8	911.11	::	:	15.	11.1	-1.00	-1.0	-1.68	-1.66	8.18	235.88	12.78	9° i -	8. 1.	-1.8	-1.0	
25	551.11	1.12	1.25	-1.0	-1.00	-1.69	-1.60	1.64	-1.65	-1.88	94	8.56	9. I -	- i . f	9. I -	9.1.	
72	265.00	1.13	::	1.56	 	-1.88	-1.0	-1.88	-1.68	7.96	265.00	9.86	9. [-	9.1-	-1.8	-1.0	
80 63	378.88	. 18	1.13	1.56	1.25	-1.00	11.1-	-1.68	-1.88	7.89	193.86	16.59	9. 1-	• · · ·	#. I.	-1.8	
29	296.88	::		99.1-	18.1-	-1,68	-1.40	-1.66	99.1-	-1.88	- 1 .85	17,21	-1.6	9. I -	e. i.	-1.4	
3.6	266.00	=:	4 9. 8	-1.86	-1.86	-1.88	9.9	-1.68	-1.68	-1.68	-1.08	9.31		-1.0	-1.8	9.1-	
001	875.88	1.85	:	6.14	:	-1.68	-1.86		-1.68	-1.00	-1.68	4.54	9.1-	ø. 1-	-1.6	-1.6	
4	975.88	1.16	8.38	19.4	80.0	-1.60	-1.6	-1.66	-1.66	8.18	159.681	9.14	9.1-	-1.8	-: -:	e: :-	
ĸ	482.11	6.81	1.38	11.1-	10.1-	-1.86	-1.88	-1.68	-1.86	8.15	137,00	9,35	9. I -	1.8	-1 -0	-1.8	
=	699.88	84.	8.13	8.78	9.84	-1.66	10.1-	-1.00	-1.80	-1.88	-1.61	4.71	1.1	. i . 6	-1.6	-1.	
12	476.11		1.25	1.1-	-1.86	-1.66	8.28	11.1-	-1.08	8.14	185.44	9.87	-i ·	e. :-	-1.6	-1.0	
<u>a.</u>	1164.00	6.13	1.15	9.46	1.25	-1.66	-1.68	-1.66	-1.88	8.15	159.00	5.21	-I.	9. I -	-1.8	e. i -	
5	214.00	1.12	4.18	8.31	1.12	-1.68	-1.08	11.1-	-1.00	7.48	141.66	7.12	٠١.	-1.4	-1.6	F. 1.	
8	77.00	1.58	1.25	-1.0	-1.60	-1.66		-1.80	1.01	7.65	153.88	17.7	1.0	9.1-	-1.	-1.f	
27	245.11	1.12	6.65	-1.88	-1.60	-1.69	-1.1	=: :-	1.1.	-1.68	-1.00	9.86	٠. ١.	٠. ١-	•:-	6. !-	
28	216.11	::	91.1	-1.06	-1.59	-1.65	-1.1	-1.06	-1.60	-1.06	-1.00	8,8	-1.6	9:1-	-1.1	-1.9	
31	89.88	-	1.17	-1.1	-1.1	-1.66	-1.1	1.1-	-1.1	-1.66	-1.68	9,83	1:1-	9.1-	-1	•	
ટૂ –	89.11		1.1	-1.6	-1.1	-1.64	-1.1-	1.1-	10.1-	-1.55	-1.88	13.47	- :-	-:		• · · ·	
٣	578.00	:	::	1.1-	-1.6	1.1.	-1.1	-:-	1.38	8,25	158.06	-1.60	9. [-	9. [-	-: -:	•: -:	

									TABLE 9 CON	Ŧ.							
CA TO	TC VATER	NO3	NH 4	KCK	P(T)	POA	acp	15 S	SSA	Hd	COKD	CL	CFCF	×	CA	3E	, E
_	226,88		1.15	-1.0	= -	-1.80		11.11	96.1-	8.00	183.00	11,53	9. -	2.3	18.6	3.4	16.8
œ	219,11	:	:	1,32	6.23	-1.1	-1.	19.1-	-1.06	-1.08	-1.46	-1.68	• -	•	÷: -	-i . 6	1.1.
Ø	381.08	:	15.1	-1.86	1.1-	-1.00	1.31	88.	1.80	-1.88	-1.66	-1.68	-1.8	1.1.	-1.8	-1.6	
=	273.00	1.12	:	.1.	-1.00	-1.00	-1.8	11.1-	-1.66	-1.86	-1.08	-1.88	j. !-	•. I.	-	-1.0	1.1.
4	379.00	3.		4.39	91.1	-1.00	5.1.	-1.0	-1.00	7.88	126.60	13,25	9.1-	9.1-	#· · ·	-1.5	-1.
51	11.695	:	::	1.1-	-1.1	-1.0	-1.6	1.1-	-1.00	-1.96	-1.80	19.1-	-1.0	-1.6	#· i -	-1.8	
16	339,00	1.03	1.12	11.11	-1.11	-1.00	1.70	1.21	9.0	-1.08	-1.98	-1.88	9·I-	÷.:-	1:1-	9. j.	
<u>. </u>	261.11	::	6.15	11.11	-1.0	-1.1	-1.0	-1.6	-1.66	-1.00	-1.00	-1.68	9.	-1.9	-1.	9.1-	-1.
8	214.11		6.69	-1.88	-1.0	-1.1	÷.	-1.8	-1.88	-1.6	-1.00	10.63	-1.6	1.1-	-1.8	-1.6	
12	192,41	**	:	11.11	-1.00	1.1-	18.1-	-1.61	-1.88	-1.86	-1.88	7.18	9.1-	-1.6	-1.8	-1.6	
22	278.11	21.1	::	:	1.06	-1.1	-1.10	10.1-	-1.88	7.95	165.00	94.0	9.1-	9. I -	-1.8	-1.6	
23	::	1.1-	-1.04	-1.88	-1.1	11.1-	-1.1	17.28	2.18	-1.66	-1.00	-1.08	4. i-	9. i -	-1.6	-1.6	
28	11. 18	:	:	-1.1	-1.1	1.1-	-1.19	-1.66	-1.88	-1.66	-1.06	7.64	-1.0	-1.8	-1.6	-1.4	7. [-
29	387.88	:	::	10.1-	-1.69	-1.1	1.1-	-1.66	-1.66	1.68	115.80	7.88	٠١.	-1.6	-1.9	-1.0	7. [-
3.6	347.60	11.11		11.11	-1.1	10.1-	-1.1		2.8	-1.68	-1.88	-1.88	8. ! -	.1.8	8	#	
) -	299.11	-	-1.0	-1.1-	-1.84	-1.64	-1.88	1.60	2.68	-1.04	-1.80	-1.68	٠١٠	-1.6	-1.0	f. ! -	-
-	375.08	:	1.11	1.1.	-1.06	-1.86	-1.00	. i -	-1.88	7.75	142.88	4.15	9,1.	-1.8	÷. i .	-1.0	- 1-
٥	234.11	::	9.0	9.36	6.13	-1.68	-1.88	-1.00	-1.66	-1.86	-1.68	7.46	9.1-	-1.6	9.1-	#. I -	-1.
ĸ	35.08	1.67	9.12	-1.0	-1.86	-1.66	-1.88	-1.88	-1.68	7.95	132.00	8.84	9. 1-	-1.6		-1.6	-1.1
ų	411.88	1.15	9.0	-1.88	-1.86	-1.68	-1.88	-1.68	-1.98	43.1-	-1.88	6.27	-1.8	-1.6	-1.8	-1.6	
œ	234.00	1.1.	9.96	62.	9.9	-1.86	-1.06	-1.68	-1.06	7.45	139.86	7.11	9.9	-1.6	.1.	9.1.	1.1.
Ø	287.11	•••	9.0	-1.88	-1.06	-1.88	-1.84	-1.86	-1.60	7.58	128.88	5.85	<u>-</u> -	-1.0	.1.	9.1-	7. [-
14	242.11	1.12	90.0	9.0	9.93	-1.88	-1.00	-1.88	-1.88	7.15	138.88	-1.88	9.1-	-1.0	-1.8	-1.8	1.1-
5	476.00	9.6	9.9	-1.88	-1.88	-1.88	-1.00	-1.68	-1.00	-1.88	-1.00	5.99	6.	1.6	-1.6		
y.	296.11	8.	9.9	-1.00	-1.99	-1.88	-1.68	-1.68	-1.89	-1.68	-1.68	6.94	-1.0	4. [-	-1.6	-1.4	-
21	331.00	1.62	9.0	9.28	1.35	-1.08	-1.60	-1.06	99.1-	-1.08	-1.68	7.18	9.1-	-1.0	0.1-	-1.6	7.
22	221.11	1.1	99.9	1.00	-1.08	-1.86	-1.00	-1.96	99.1-	6.75	141.88	-1.88	-1.6	-1.0	-1.6	-1.4	
23	87.00	1.1	1.1	-1.18	-1.84	-1.66	-1.66	-1.06	-1.68	-1.88	-1.88	-1.68	9. I-	-1.6	1 .	1.1-	-1.6
32	-1.1	61.19	6.09	9.17	-1.88	-1.68	-1.98	-1.38	-1.00	-1.98	-1.06	-1.86	#. I-	• I • 6	-1.0	-1.6	-1.1
50	1468.88	12.	9.9	66.6	9.28	-1.88	-1.88	-1.68	-1.88	-1.00	-1.08	1.18	5.	-1.6	-1.0	-1.0	-

TABLE 10 PERCOLATE FROM CONTROL SECTION 17 MAY 1977 - 31 MAY 1978

	STE	WATER	103	NH 4	MCKO	P(T)	P04	305	188	SSV	H.d.	COMP	C.L.	3F(F)	×	క	ģ	\$1. 51.
1 1 1 1 1 1 1 1 1 1	191	6.63	15.1	1.13	4.35	4.24	33.1-	64. [-	-1.96	18.1-	۷.65	26.212	26.74	F. I.	. I -		٠ 1 - 0	: 1 -
	, , ,	8 ° 3 9	2.33	4 4		-1.38	-1.36	-1.60	-1.88	-1.68	7.25	198.861	21.73	-١٠٤	-1.3	-	· 1-	٠١٠
1. 1. 1. 1. 1. 1. 1. 1.	۲	-1.61	84.6	1.25	# j • I -	-1.37	6,13	-1.60	-1.06	3 2 · I -	7.4?	312.28	48.47	-1.0	-1.1		٠) . ٢	-1.6
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	œ	-1.8	3.68	6:52	9.62	83.0	-1.89	4.18	-1.86	34.1-	7,85	287,26	25,22	32.6	3.1-		-۱ . و	
1. 1. 1. 1. 1. 1. 1. 1.	2	41.88	12.1	7.9.7	7.9K	9°5¢	-1.66	-1,68	1.94	1.38	7.75	271.68	25,64	٠١.٩	J. I-	-1.6	-1.8	-
2 1	<u>v</u>	6.9	F.23	8 8	-1.68	8 d. 1 -	-1.88	-1.33	-1.60	-1.88	21.1-	-1.66	31.25	-1.0	-1.6	٠1.۴	-1.6	-1
3.1 4.1 4.2 4.1 <th>21</th> <th>83.6</th> <th>1.38</th> <th>99.</th> <th>-1.88</th> <th>-1.67</th> <th>-1.88</th> <th>-1.68</th> <th>-1.66</th> <th>-1.66</th> <th>7.25</th> <th>272.88</th> <th>25,65</th> <th>٠١٠</th> <th>- I • C</th> <th>-1.6</th> <th>٦.١-</th> <th>-1.</th>	21	83.6	1.38	99.	-1.88	-1.67	-1.88	-1.68	-1.66	-1.66	7.25	272.88	25,65	٠١٠	- I • C	-1.6	٦.١-	-1.
1. 1. 1. 1. 1. 1. 1. 1.	23	*	\$.42	e. e.	1.12	6. 6.	-1.66	18.1	-1.68	1.0	-1.68	1.68	28.78	3.8	9· I-	-1 • 4	1.1-	J. [-
4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	32	60.3	6.49	8.64	-1.64	P .2.4	-1.89	-1.62	-1.69	-1.06	10.1-	-1.98	27.85	-1.8	-1.6	9	-1.6	-1.5
4.44 4.56 4.14 4.18 <th< th=""><th>735. 1</th><th>69.6</th><th>1.56</th><th></th><th>-1.9</th><th>-1.68</th><th>-1.08</th><th>-1.63</th><th>13.1-</th><th>1.66</th><th>7.65</th><th>254.95</th><th>28.35</th><th>9· I -</th><th>-1.6</th><th>-1.6</th><th>-1.6</th><th>-1.5</th></th<>	735. 1	69.6	1.56		-1.9	-1.68	-1.08	-1.63	13.1-	1.66	7.65	254.95	28.35	9· I -	-1.6	-1.6	-1.6	-1.5
1.13 1.14 1.15 1.14 1.15 1.16 <th< th=""><th>ĸ</th><th>8.68</th><th>8.76</th><th>1.14</th><th>8.71</th><th>98.8</th><th>1.1-</th><th>-1.33</th><th>-1.00</th><th>13° I -</th><th>1.95</th><th>361.68</th><th>30.47</th><th>178.6</th><th>-1.6</th><th>-1.6</th><th></th><th>-1-1</th></th<>	ĸ	8.68	8.76	1.14	8.71	98.8	1.1-	-1.33	-1.00	13° I -	1.95	361.68	30.47	178.6	-1.6	-1.6		-1-1
1.5 1.5 1.6 <th>۲</th> <th></th> <th>3.45</th> <th>6.12</th> <th>1.1.9</th> <th>-1.88</th> <th>-1.66</th> <th>98°3</th> <th>-1.62</th> <th>-1.00</th> <th>1.1.</th> <th>33.1-</th> <th>85.32</th> <th>-1.6</th> <th></th> <th>٠. ١.</th> <th>-1.6</th> <th>1.1-</th>	۲		3.45	6.12	1.1.9	-1.88	-1.66	98°3	-1.62	-1.00	1.1.	33.1-	85.32	-1.6		٠. ١.	-1.6	1.1-
13 1.37 1.43 1.43 1.149		9.	1.59	**	-1.89	-1.88	-1.88	28.1-	1.32	P. F4	7.69	38.534	35.57	-1.3	-1.6	-1.3	٠١٠،	-:-
9.67 6.76 6.76 6.11 6.12 <th< th=""><th></th><th>25.88</th><th>1.37</th><th>16.9</th><th>-1.63</th><th>-1,82</th><th>-1.00</th><th>23.1-</th><th>2y* I-</th><th>-1.88</th><th>-1.86</th><th>30.1-</th><th>38.50</th><th>-1.6</th><th>-1.6</th><th>-1.6</th><th>-1.5</th><th>-1.3</th></th<>		25.88	1.37	16.9	-1.63	-1,82	-1.00	23.1-	2y* I-	-1.88	-1.86	30.1-	38.50	-1.6	-1.6	-1.6	-1.5	-1.3
29.07 6.75 6.17 1.28 -1.28 -1.28 -1.28 -1.28 -1.29 -1	7	28.0	1.87	99.1	P.64	93.9	8.14	26.1-	-1.68	10.1-	36.1-	-1.68	54.82	-1.6	-1.8	2.1-	-1.6	-1.0
4.67 6.62 6.23 -1.67 -1	Ü	29.62	6.79	6.17	-1.66	-1.88	-1.66	18.1-	-1.88	-1.38	-1.88	-1.20	57.32	-1.6	-1.8		-1.6	-1.6
4.85 6.53 6.43 -1.89 -1	60		3.6	1.25	-1.68	1.00	1 . F .	-1.78	-1.60	٠١٠١-	-1.68	-1.63	46.78	e,	-1.6	-	J. I -	1.1-
6.18 6.28 6.49 6.28 1.18 <th< th=""><th>5</th><th></th><th>8.65</th><th>6.37</th><th>-1.82</th><th>-1.98</th><th>1.12</th><th>-1.88</th><th>-1.69</th><th>-1.88</th><th>7.78</th><th>571.88</th><th>42.49</th><th>-1.3</th><th>9.1-</th><th>1.1-</th><th>-1.</th><th>-:-</th></th<>	5		8.65	6.37	-1.82	-1.98	1.12	-1.88	-1.69	-1.88	7.78	571.88	42.49	-1.3	9.1-	1.1-	-1.	-:-
8.88 9.68 9.18 -1.88 -1	23	en en	3.62	P.49	£3.4	28.0	-1.60	-1.68	-1.66	-1.00	11.1-	19.1-	42.26	-1.6	-1.6	-:	J. I.	-
9.88 6.57 6.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.88 -1.89 -1	23	1.1	19.6	6.83	-1.66	-1.82	-1.96	66.9	18.1-	-1.48	33.1-	34.1-	35.12	-1.6			-1.3	-1.5
6.25 6.47 6.48 -1.86 -1	22	3.1	15.37	62 64	-1.68	-1.66	-1.88	83.1-	-1.88	3 J. I-	-1.88	-1.86	37.11	-1.6	-1.8	7.	J• [-	-1.5
22.88 9.67 9.78 -1.89 -1.80 -	5 e	83.8	65.1	34.4	- I . A A	-1.58	-1.88	-1.88	-1.60	-1.68	-1.60	-1.88	42.18	-1.2	1.1-	e; -	j• [-	-1.3
6.83 8.73 8.75 -1.68 -1.68 -1.68 -1.68 -1.68 -1.69 -1	27	22.88	19°4	34.	-1.39	-1.80	6.14	-1.99	-1.68	-1.66	7.75	688.83	38.52	-1.6	J. I.	₽* 1 -	-1.6	-1.5
47.83 P.63 P.89 P.74 P.12 -1.88 -1.88 -1.89 -1.89 -1.89 P.35 CA3.09 A1.46 -1.3 P.1.8 -1.8 P.35 P.35 P.35 P.35 P.35 P.35 P.35 P.35	2.E	6.83	17.5	31.8	1.68	-1.63	10.1-	33.1-	8.85	2.43	-1.88	-1.68	38.92	9. 1-	-1 · f		7.	1.
8.88 8.56 8.21 -1.66 -1.86 -1	S S	47.83	1.63	00.0	8.74	9.12	-1.66	-1.88	-1.68	19.1-	-1.88	-1.68	35.67	-1.3	-1.6		-1.6	-1.6
43.69 6.26 1.16 -1.68 -1.88 -1.89 -1.89 -1.89 -1.89 39.19 1.8 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6	₩		9.78	1.21	1.00	-1.06	-1.66	1.00	99.1-	-1.88	8.35	643.00	41.46	6.1-	-1 · B	1.	. i.	7
43.88 6.39 6.28 1.15 8.28 -1.88 -1.88 -1.89 -1.89 8.18 775.68 49.57 -1.8 -1.6 -1.6 -1.6 -1.7 -1.7 -1.8 -1.6 -1.88	•	1.1	9.6	11.1	-1.68	-1.00	-1.68	-1.88	-1.86	-1.88	11.68	-1.80	38.19	1.1	-1.6		-1•:	-
8,25 P.15 -1.80 -1.88 -1.88 -1.88 -1.88 -1.88 -1.68 -1.68 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.	ø	43.11	6.39	£.28	1.15	P.28	-1.66	-1.68	-1.68	-1.68	8.14	99. 624	49.57	-1 ·6	-1.6	٠, ١-	· I •	
8.32 F.FE -1.8F -1.9P 5.08 -1.6P -1.6P 7.75 503.0B 63.02 -1.3 -1.P -1.C -1.C	15	51.88	1.2 K	P.15	-1.64	-1.86	-1.86	-1.69	-1.68	39.1-	-1.88	-1.00	49.34	1.1-	-1.	-1.6	-1.6	7.1-
	<u></u>	21.12	1.32	11.1	-1.86	-1.00	40.1-	8 8	-1.63	-1.00	7.75	963.88	81.12	-1.3	-	٠. ١-	1.1-	7

¥ .	17	7	-1.0	7		-1.5	-1.3	-1.5	-1.	-1.5	-1.1	::-	-1.6	1.1-	7	-1.5	J.1.	3.1-	1.1.	1	-1.6	-1.5		-1-			-	7	7.	-
ş	- I • 6	9.	-1	9.1-	J. I.	-1.	-1.1	1.1.	f. !-	-1 · ſ	٠1 -	1.1-	7	-1 • د	e. I -	-1	-1.6	١.١.	J•1-	7	7	٠ [-	E	- I • G	e • -		-	1.	7.	; 7
CA	- 1 . 9	-1.6	-1.6	-1.8	-1.5	6.1-	e. !-	-1.6	-1.6	-1.8	-1.6	-1.3	-	-		-1.5	-1 -	-1.6	-1.8	٠. ١-	-1.1	-1.6	٠١-	٠		1.1.	-1.6) · [-	ř: 7	-1.
*	11.6	·: 7	-1.0	ē: <u>-</u>	1.1-	ş	a. i -	-1.	-1.6	-1.6	-1.5	j.	-1.4	j: I-	ē: -	J• [-	1.1.		-1.8	٠١.	7	9.1-	-١٠٠	٠	£	-1 -	~	1.1.	9.7-	· -
CF(F)	e. i -	٠. ١.	3.1-	٠١.،	3.6	÷:-	-1.0	e. !-	٠١.۴	65	-1.8	J• [-	-1.0	₽• I-	1.1-	-۱٠٤	3.9	-1.6	-1.6	-1 - 6	-1.ľ	-1.6	-1.6	£3.	-1.8	-1.9	1.1.	3.1-	j. 1-	-١٠٤
ដ	44.26	34.64	35.56	27.56	27.82	31,25	16.76	28.22	58.47	J J * I -	5 4.22	37.23	36.28	27.54	83.32	22.25	55.65	16.76	17.86	17.13	14.44	11:51	15,31	35.0	49.5	13.48	13.66	14.35	14.75	- ا • ا ٦
COND	-1.68	773.86	-1.60	-1.03	12.868	764.88	-1.68	817.86	721.48	-1.66	-1.63	646.38	-1.64	64.98	285.00	-1.88	-1.68	-1.45	31.815	444.86	29.1-	48 6.9¢	39. 188	468.20	336.988	-1.03	-1.66	- 1 - 33	-1.00	450.00
7.	-1.00	7.35	-1.04	-1.69	7.85	7.95	-1.86	7.55	7.65	-1.00	-1.98	7.75	-1.64	7.78	7.68	-1.88	-1.06	-1.66	7.60	8.85	-1.20	7.95	10.7	7.25	P.3?	J J • I -	-1.98	-1.63	-1.60	£.3
SSA	-1.68	£.13	-1.26	-1.66	-1.68	1.97	-1.69	-1.66	1.00	-1.61	1 . 8 .	3.48	-1.60	-1.66	-1.62	18.1-	-1.86	-1.83	1:01-	-1.68	-1.64	-1.36) d* I -	-1.68	-1.68	1	-1.21	-1.8?	1.35	13° 1
755	-1.02	13.1-	-1.68	-1.86	-1.88	13.84	-1.86	-1.60	-1.82	-1.88	-1.86	3.48	3.88	-1.88	-1.86	-1.86	1.68	-1.86	-1.88	-1.02	-1.68	-1.30	je•1-	-1.64	43.1-	-1.18	30.1-	-1 • ژ ل	13.1-	ا د • د
300	99.1-	-1.86	-1.80	-1.86	1.33	-1.83	-1.63	-1.83	-1.84	1.69	-1.66	-1.83	-1.83	-1.83	-1.88	30.1-	8.14	-1.36	-1.38	-1.00	23.1-	23. 6	-1.83	-1.83	2 5.2	-1.88	-1.20	-1.88	1.2°	-1.68
P 04	6 ° 1 -	28.1-	31.1-	-1.60	7.11	-1.68	-1.88	-1.68	11.66	-1.98	-1.62	18.1-	93.1-	-1.68	-1.6¢	-1.20	-1.86	-1.68	-1.80	-1.68	2:-	-1.62	-1.66	-1.30	10°1-	1.00	-1.83	-1.90	-1.8:	-1.10
PCD	-1.69	1.25	-1.68	-1.63	-1.69	6.25	-1.88	36.1-	9.92	-1.59	e :	85.9	1 . 9.9	33.6	3. 5.	5 g • I -	-1.00	33.3	6.87	-1.82	1.15	18.1-	99.9	1.12	-1.00	-1.00	-1.89	-1.68	-1.66	-1.26
CKC	-1.6	8.31	-1.86	-1.00	-1.85	1.14	-1.60	-1.86	95.9	11.1-	-1.88	8.53	-1.63	1.56	£.56	-1.62	93.1-	1.28	6.57	-1.32	1.93	-1.68	8.35	9.39	-1.88	-1.62	-1.89	-1.00	23.1-	-1.68
4 HZ	10.	6.13	1.58	3.9.5	8,25	6.69	P.28	1.85	8.68	63.9	•		F.13	ê 6 · 6	42.3	4.67	6.62	03.9	8.25	\$ °38	f . 13	1.25	F.13	6.64	60°			1 .1	6.5	; y • y
NOS	6.15	1.33	43.0	14.	1.15	3.72	2.25		6.67	6.14	6.67	f . F2	. s.	1.12	9	9.02	1.12	£ 83	9.85	83.	8.83	3.65	. e.	1.12	81.8	3.16	t.12	1.16	6.94	8.04
WA TER	;	18.68	22,11	12.11	22.00	18.99	8.8	13.68	31.96	98.3	18.88	161.96	41.88	68.83	25.38	38.88	16.88	86.83	46.88	23.68	65.28	27.88	134.88	-1.68	e	7.63	15.00	14.88	13.86	38 . 48
24 TE	61	2.4	92	88	, , ,	r-	Ø	13	7.	15	91	*	23	2.7	61	53	e de	3.50	4	ĸ	Ξ	15	18	51	26	27	28	3.1 NCV	-	٣

															;	•	*
PATE	-	NOS	1.H 4	XXX	PC 3	PC4	305	158	SSA	ä	COND	25	SFCD	*	V.	2	4 i
,	52.68	6.85	f.12	-1.08	-1.50	6 B . I -	-1.88	-1.4	-1.29	P. A?	522 .16	16,38	-1.f	-1,	e	-۱۰۲	٠. ١
- α	46.			9.93	6.17	E	-1.30	9 J. I -	-1.63	-1 ° G	-1.68	-1.76	-1.2	-1.8	٠. -	-1.1	
<i>و</i> د	45.83			1.63	00.4	. d.	35.3	15.5	1.36	-1.83	-1.96	-1,00	g · 1 -		-1.3	-1،ر	
٠ :							-1.88	-1,28	1:1-	13.1-	-1,33	-١٠،۴	- I - ca	·) · [·	-1.5	-
= =		73.			1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-1.66		18* I-	7.80	407.03	13.74	9-1-	-1.6	1.6	٠.١٠	3.1.
: 5			e 6.				-1.28	5.6.11	11.1-	-1.88	-1.70	:2° I -	ş. I-	-1 • 2	7	-1.5	7
<u></u>	14.63		13.5	28.1-	11.1-	-1.76	2 2 2	6.48	1.98	-1.85	-1.20	-1.59	-1.5	J•1-	J• [-	-1 •:	: I -
	47.32		9.	14.1-	-1.28	1 2.6	-1.33	99.1-	\$ 2 ° 1 -	-1.86	31.1-	-1.00	e• 3	ē. I-	-1.6	-1.6	-1.5
<u> </u>	22.11	53.	68.	1.1.1.	-1.63	-1.60	-1.88	-1.88	-1.00	28.1-	32.1-	12,15	11.2		-1.9		-1.6
12	18.81	49.5	ون ون و۔		-1.68	-1.5	32.1-	-1,68	-1.98	-1.06	-1.66	13,33	-1.6	1.1.	e- 1-	-1.	-1 -
22	37.68	28.1	: :	68.	وء وء و	-1 .63	39.1-	-1.88	-1.68	80.9	412.88	12.51		.1.	١٠١-	٠١٠	11
23	32.68	-1.06	11.1-	92.1-	-1.68	11.1-	-1.62	94,78	12.78	-1.88	-1.68	-1.48	J• I-		-1 • ر	-1.0	
32	36.88	3.68	32.3	1 . 1 .	16.1-	-1.92	-1.98	-1.66	-1.82.	-1.86	-1.00	9.45	٠١٠،		٠١٠	-I-	٠١ - ٢
52	2 K. 8 8	21.3	63 E: •	-1.79	-1.96	1.6.	33.1-	-1.88	-1.69	15.5	330.88	R.45	-1.8	-1.	-1 • 1	-1.0	-1.
EA PO	18.81	-1 -86	-1.24	-1.63	90.1-	-1.10	-1.83	3.18	2.68	-1.63	-1.84	-1.03	£.1.	٠١٠،	-1 - 3	-1.	١٠٠٠
DEC -	35.87	-1.88	11.86	-1.84	-1.68	-1,38	-1.68	وم در د	1.28	10.1-	-1,22	-1.49	-1.8	٠١٠٤	-1.0	··· ~	-1.8
	32.11	99.6	66.4	3 J * 1 -	-1.68	-1.9	-1.88	-1.50	1.68	7.95	321.68	ç; • v.	3.1-	٠١٠		٦.١-	-1.5
CI	8.8	#.F.	36. 5	8 . Kņ	\$ 2° \$	-1.25	19.1-	-1.00	-1.66	-1.68	93.1-	S . 48	-1 • ه	-1.6	-1.8	-1.5	-1.0
n	36.95	64.8	17.8	-1.69	13.1-	34.1-	-1.88	-1.88	~1.48	8.38	275,88	7.76	3.1-	.1.	e: - I -	-1.5	
v	18.68	52.4	33. 3	13.1-	-1.88	23.1-	39.1-	-1 .e	-1.86	2 3. 1-	19.1-	7.53	-1.3	-1.		-1 •	-1.6
n)	37.26	9.83	6.38	F . C3	83.	-1.63	-1 .86	-1.88	~1.88	7.48	334,68	7.11	8.3	٠١.٤	-1.1	-1.:	-1.5
σ	46.88	44.	94.1	-1.66	29.1-	-1.62	-1.88	-1.88	-1.86	7.85	369.28	7.86	ş . 1-	٥. ١٠	1.00	-١٠٢	٠ ١ -
14	-1.28	9.8 ¢	61.1	33.4	33.9	-1.66	-1.86	-1.88	-1.60	7.45	317.68	-1.86	-1.6		•-	٠١٠.	-1.6
<u></u>	49.88		4.62	-1.68	-1.26	-1.62	-1.68	-1.88	-1.86	-1.06	-1.60	6.76	6.9	-١٠١	-1.6	-1.1	-1.
16	39.68	1.12	9.66	-1.03	- 1.68	1.86	-1.68	-1.68	-1.86	-1.00	99.1-	6.44		-1.6	•: -	J. I.	
12	122.00	6.85	89.3	6.64	8,02	-1.88	-1.68	-1.88	-1.69	-1.88	-1.30	6.14	٠. ١٠	-1.6	·: -	-1.6	
22	58.88	6.81	94.9	-1.66	£ 9° 1 -	39.1-	-1.86	-1.48	-1.69	6.98	252.88	-1.98	;·!-	-1 · t	-1.	-۱۰	-
23	82. O	11.		-1.60	-1.68	19.1-	.1.68	98.1-	-1.86	-1.80	-1.68	-1,42	٠١-	-1	-1، ر	٠. ١-	
7	-1.62	8.00	6.65	B . 73	8.5	1.8.6-	-1.88	-1.68	-1.88	-1.88	-1.28	-1.88	a. I-	-1.8	-1.6	J. I.	2.7
20 Nat	3 54.86	4.11	1.1	36.8	\$20.5	-1.88	-1.63	-1.88	-1.68	-1.5	-1.32	16.45	1.0	2.1-	-1 · f	-1 • (- T

TABLE 10 CONT.

Table 11a

Analysis of Surface Water Samples from the Primary Fest Section

	Nit	rate		Am	monium		Tota	1 Kjel	dahl Nitrogen
	Dista	nce D	ownslope	Dist	ance D	ownslope	Dis	tance	Downslope
<u>Date</u>	3m.	15m.	28m.	3m.	15m.	28m.	<u>3m.</u>	15m.	28m.
1977			_						
30 August	0.3		0.3	22.3	15.6	1.0			
15 Sept	0.4	2.3	2.6	29.2	18.4	5.6	33.8	22.3	8.6
29 Sept	2.1	0.7	6.6	23.5	15.7	1.2	24.7	16.7	2.2
5 Oct	0.6	1.1	0.8	25.6	18.8	5.5	29.0	21.3	7.7
13 Oct	0.1	>10	6.4	92.2	60.7	3.4	>50	>50	4.3
21 Oct am	4.7	8.6	13.4	1.4	0.1	0			
21 Oct pm	2.2	4.6	6.2	0.5	0.2	0			
27 Oct	1.0	2.1	2.9	25.8	23.3	7.6			
3 Nov	1.2	3.1	2.6	27.4	19.2	3.2			
7 Nov	0.6	0.8	1.9	32.8	26.2	7.2			
9 Nov	1.6	3.1	2.9	32.9	27.2	11.9			
16 Nov	2.3	3.3	3.9	35.4	32.0	18.3			
18 Nov	0.8	2.0	2.2	32 3	25.8	13.7			
21 Nov	0.5	1.8	2.2	34.2	28.8	17.2			
28 Nov	0.9	1.9	2.2	31.5	22.7	13.6			
1978	0.,	1.,		34.5	,	13.0			
27 April	0.8	0.9	2.1	27.2	29.9	23.1			
3 May	0.4	0.5	2.1	27.7	27.2	19.0			
12 May	0.9	0.9	1.8	32.2	27.0	21.3			
	0.4	0.9	1.8	32.0	20.6	21.8			
19 May									
26 May	0.1	0.9	1.3	36.0	22.7	25.3			

Table 11b
Analysis of Surface Water Samples
from the Primary Test Section

	Tota	1 Phosph	orus		Chlori	de		Nitrit	2
Date	Dista	nce Down	slope	Dista	ance Do	wnslope	Dist	tance De	ownslope
1977	3m.	15m.	28m.	3m.		28m.	3m.	15m.	28m.
15 Sept	4.5	3.7	2.6	29.1	29.3	32.6			
29 Sept	4.3	3.6	1.9	27.1	26.1	24.4			
5 Oct	4.8	4.2	2.9	33.8	29.6	27.9			
13 Oct	6.8	5.1	1.8	29.8	28.9	22.5			
27 Oct				34.1	33.5	31.4	0.1	0.2	0.2
3 Nov									
7 Nov	8.4	7.1	4.5	33.3	32.8	29.9			
9 Nov	7.3	5.7	4.2						
16 Nov	6.1	4.8	4.2						
18 Nov	6.7	5.5	4.1	48.9	44.4	41.9	0.1	0.1	0.0
21 Nov	8.3	6.7	5.6	39.9	38.7	38.1	0.0	0.0	0.0
28 Nov				37.2	33.2	32.1	0.1	0.0	0.0
1978									
27 April				34.2	33.4	33.0			
3 May				32.9	32.7	32.4			
19 May				31.8	28.1	28.4			
26 May				33.4	29.4	31.0			

Table 12a
Analysis of Surface Water Samples
From the Secondary Test Section

		Nitrate		Amm	onium		Total	l Kjeldahl	Nitrogen
Date	Dist	ance Do	wnslope	Distan	ce Down	slope		tance Downs	_
1977	3m.	15m.	28m.	3m.	15m.	28m.	3m.	15m.	28m.
30 Aug	10.5	10.8	4.1	6.3	3.0	0.0			
15 Sept		11.0	1.0	10.0	2.1	0.0	12.0	2 6	1 5
29 Sept		6.1	0.0	8.8	5.6	0.6		3.6	1.5
5 Oct	3.3	3.8	3.9	19.5	12.2		10.4	6.7	1.5
13 Oct	23.6	20.4	12.2	11.0	3.8	5.5 1.6	21.3 12.9	13.7	6.9
21 Oct :		1.1	0.9	0.4	0.0	0.0	12.9	5.9	3.1
		0.4		0.2					
21 Oct 1	-		0.3		0.0	0.0			
27 Oct	3.2	3.3	3.9	23.8	23.2	14.4			
2 Nov	11.3	13.8	13.7	26.0	16.7	6.5			
7 Nov	6.4	8.5	9.1	29.2	23.2	16.4			
9 Nov	23.6	24.4	22.3	31.0	23.6	8.2			
16 Nov	12.3	15.8	17.7	28.4	18.7	14.1			
18 Nov	5.2	7.6	7.6	28.1	22.1	12.3			
21 Nov	4.3	6.6	6.6	31.9	26.6	16.1			
28 Nov	3.1	4.2	3.0	26.9	22.4	8.9			
1978									
27 Apri	1 2.2	1.3	10.8	30.4	10.3	12.3			
3 May	4.2	6.2	9.0	26.0	22.6	12.6			
26 May	2.7	5.3	6.8	36.0	25.5	18.9			
~o nay	~-,	٠.5	0.0	20.0	و و رے	10.9			

Table 12b Analysis of Surface Water Samples from the Secondary Test Section

	T	otal Pho	sphorus		Chloric	de		Ni	trite
Date	Dis	stance Do	wnslope	Dista	ance Do	wnslope	D:	istance	Downslope
1977	3m.	15m	28m.	3m.	15m.	28m.	3m.	15m.	28m.
15 Sept	4.5	3.7	2.6	29.4	29.4	35.3			
29 Sept	4.3	3.6	1.9	27.6	25.3	27.0			
5 Oct	4.8	4.2	2.9	30.8	29.3	29.0			
13 Oct	6.8	5.1	1.8	29.7	29.0	27.8			
27 Oct				34.4	34.7	33.3	0.5	0.5	0.6
2 Nov				33.8	33.7	32.5	0.9	0.7	0.7
7 Nov	6.1	5.7	4.8	33.3	32.5	31.8			
9 Nov	5.8	5.4	4.1						
16 Nov	5.9	5.0	1.4						
18 Nov	6.0	5.5	4.4	39.3	38.9	37.6	0.2	0.2	0.4
21 Nov	7.2	6.9	4.9	41.4	41.2	40.1	0.0	0.0	0.2
28 Nov				35.6	36.1	33.3	0.2	0.1	0.0
1978									
27 April				33.5	33.6	33.4			
3 May				31.8	32.1	31.6			
26 May				30.7	29.7	29.4			

Table 13a
Analysis of Surface Water Samples
from the Control Test Section

		Nitrat	e	4	Ammoniu	n.	Tota1	Kjeldah1	Nitrogen
Date	Dist	ance Do	wnslope	Dista	ance Dov	wnslope	Dist	ance Dow	nslope
1977	3m.	15m.	28m.	3m.	15m.	28m.	3m.	15m.	28m.
30 Aug	0.0	0.0	0.0	0.0	0.0	0.0			
15 Sept	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.5
29 Sept	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
5 Oct	0.0	0.0	0.0	0.2	0.2	0.1	0.6	0.4	0.8
13 Oct	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.4	0.4
21 Oct am							- , .		
21 Oct pm									
27 Oct	0.0	0.0	0.0	0.1	0.2	0.2			
2 Nov	0.0	0.0	0.0	0.1	0.0	0.0			
7 Nov	0.0	0.0	0.0	0.0	0.1	0.0			
9 Nov	0.0	0.0	0.0	0.1	0.1	0.1			
16 Nov	0.0	0.0	0.0	0.0	0.0	0.0			
18 Nov	0.0	0.0	0.0	0.0	0.0	0.2			
21 Nov	0.0	0.0	0.0	0.1	0.0	0.0			
28 Nov	0.0	0.0	0.0	0.0	0.0	0.0			

Table 13b
Analysis of Surface Water Samples
from the Control Test Section

	Tota	l Phospho	rus	Ch1	oride		N	itrite	
Date	Distar	nce Downs	lope	Distan	ce Dowr	ıslope	Dista	ance Do	wnslope
1977	3m.	15m.	28m.	3m.	15m.	28m.	3m.	15m.	28m.
15 Sept	0.1	0.1	0.3	4.8	4.5	5.6			
29 Sept	0.3	0.1	0.0	7.3	7.5	7.9			
5 Oct	0.3	0.2	0.1	7.1	7.3	8.3			
13 Oct	0.5	0.3	0.1	7.6	7.8	9.3			
27 Oct				7.1	8.0	10.9	0.0	0.0	0.0
2 Nov				6.2	7.0	7.5	0.0	0.0	0.0
7 Nov	0.5	0.3	0.4	7.1	8.7	9.8			
9 Nov	0.3	0.4	0.3						
16 Nov	0.6	0.4	1.7						
18 Nov	0.3	0.5	0.5	7.0	7.9	9.9	0.0	0.0	0.0
21 Nov	0.0	0.2	0.5	6.7	7.2	7.8	0.1	0.1	0.1
28 Nov				6.1	6.1	7.6	0.1	0.1	0.1

Table 14. Summary of Water Quality Methods

				מיייי לייייי	
Parameter	Method	Range	Standard	1	
Nitrate		8	DEVIATION	Instrument	Reference
	Automated cadmium reduction	0-50 ppm	9.0	Technicon AA II	Technican Teducates as
Amontum	Automated				(1973)
Kieldahl-Nitrosen		O-25 ppm	0.3	Technicon AA II	Technical Tables
	Jecumicon Continuous Digestion (May 1977 - Feb 1978)	0-50 ppm	1.4	Technicon AA II	Tech. Indus. Method #146-71A (1972)
	Technicon Block Digestion (Feb-May 1978)		8.0	Technicon AA II	Tech. Indus Method # 220 vivie vier
Total Phosphorus	Technicon Continuous Digestion (May 1977 -	0-10 ppm	0.2	Technicon AA II	Tech. Indus. Method #116-71W (1972)
	Technicon Block Digestion (FebMay 1978)		0.1	Technicon AA II	Tech. Indus. Method #329_7, 15/2 /1072
Ortho-Phosphorus	Manual Molybedenum Blue	0-0.11 ppm	0.002	Coleman Jr.	Hach
900	DO, Winkler method with Azide Modification	0-200 ррш	1.5	Manual titration	Standard Methods, 13th Rd. n. 272
Total Suspended Solids Fecal Coliform	Milipore	0-200 ppm	3.4	}	
Chloride	Technican Thismass	100-100/100 ml		1	Standard Methods 13th Ed., pp. 537-538
ЬН	THE CONTROL OF THE CO	0-35 рра	4.0	Technicon AA II	Tech. Indus. Method #99-70W (1973)
Specific conductance		100-1000	2.0		
‡ ₈ 5	Atomic Absorption	umpos/cm	<u>:</u>		
M8 +	Atomic Absorption			Perkin Elmer 303,703	Methods for Chemical Analysis of water and wastes (1972) no 14.3
Na +	Atomic Absorbed			Perkin Elmer 303,703	Methods for Chemical Analysis of water and wastes (1974) p. 143.
	Atomic Absorption		_	Perkin Elmer 303,703	Methods for Chemical Analysis of water and wastes (1974) p. 143.
			-	Perkin Elmer 303,703	Methods for Chemical Analysis of water and wastes (1974) p . 143.

Monthly Meteorlogical Summary

June 1977

Soil Temp.	16.5	16.9	18.1	16.2	16.8	15.6	15.3	14.1	13.7	14.7	15.5	15.3	16.1	16.4	17.6	16.0	15.7	16.8	17.9	18.0	18.0	17.0	17.4	18.6	19.0	20.0	21.0	22.3	21.1	21.0	
Pan Evap.	6.0	0.5	7.1	0.9	8.7	2.3	2.9	0.7	3.4	0.8	1.0	0	3.6	1.5	1.5	6.3	5.0	0.9	3.1	4.7	5.8	3.5	4.6	5.6	2.8	1,3	1.5	4.0	7.2	6.4 TOTA	104.8 101AL
Precipitation Amt. (mm)	5.3	20.6				25.4	17.8	0.8		5.3	0.8			5.6			0.3	2.3	1.3	1.5	1.5				17.3	8.9	0.5		24.6	130 0 0001	
Wind (MPH) Dir.	240	240	360	010	360	030	040	230	VAR	030	020	030	020	VAR	360	VAR	230	210	M	270	VAR	020	020	230	250	VAR	270	230	230	VAR	0/1
Speed (M	7	2	7	5	5	ო	2	4	n	9	5	٣	2	႕	4	2	ო	က	4	7	٣	4	2	٣	7	2	2	5	٠ 5	0 <	t
Rel. Hum. %	92	95	72	99	83	85	97	98	83	91	91	92	80	87	71	75	85	90	91	74	85	83	81	7.4	87	6	84	80	68	<u>59</u>	00
Av8	14	20	11	14	16	13	11	6	11	13	13	16	19	18	16	16	14	21	20	19	17	12	16	18	19	18	23	23	21	$\frac{21}{16}$	qΤ
Temperature OC Max Min Avg	6	13	7	9	11	7	∞	9																						<u> </u>	
Temper																														27	
																														AVC	AVG
Date	-	7	က	4	S	9	7	œ	6	21	11	77	13	14	15	16	17	18	19	20	21	22	23	77	25	56	27	28	29	30	

JULY 1977

Soil Temp.	þ	20.9	19.6	18.8	19.3	20.1	18.5	17.8	18.4	18.8	18.9	17.7	18.6	19.8	20.7	19.5	20.8	21.2	21.4	20.8	23.6	24.1	21.7	19.4	21.0	20.2	18.9	18.0	19.2	18.4	•	ļ	
Pan Evap (mn)	,	\. 0	7. 7	9. ¢	4.7	4.5	7.2	3.7	2.0	2.4	9. 0	2.4	5.2	ο .	4.9	5.2	5.8	2.2	3.5	6.5	4.0	3.6	10.0	6.5	8.0	2.1	3.9	7.1	6.9	4.6	5.4	1.9	144.7 TOTAL
Precipitation Amt.	(mm)	0	U U	7.	00.			1	7.35			7	11.7	67:				I	1.5			8.2				3.0						ļ	24.72 TOTAL
Wind Speed (MPH) Dir.	4 250	3 VAR	3 240	3 VAR	370	3 VAR	2 VAR	2 VAD	320	3 050	3 230	1 250	220	3,60	330	2200	VAIK					3 240		5 360		W 7						3 VAR	
Rel. Hum. Z. Sp.	77	70	7.4	· 00	7 (2	0 %	t \	000	T00	5	1 00	o & 6) oc	7 77	7 <i>/</i>	1 C	0/0	/8	/3	76	70	84	62	62	99	06	99	65	65	99	88	73	76
Temperature (°C)	14 2		∞	13	7	? ^	. 10	13	14	10	00	14	19	15	14	ά,	5 5	1,	, L	J 8	07	T8	ט כ	ο :		L	× ox	٥	۲,	17	97	25 13 21	77
Date	– 1	7	m	4	S	9	7	œ	6	10	11	12	13	14	15	16	17	18	10	2 5	2.0	22	23	2.5	25	26	27	76	20	30	3.5	AVG	>

Table 15c

Monthly Meteorological Summary

AUGUST 1977

Soil Temp	20.9	22.1	23.9	23.2	23.4	23.3	23.2	19.9	21.9	23.0	22.2	22.4	21.2	19.7	21.1	20.7	19.6	18.9	17.7	17.6	17.7	18.9	17.7	17.6	18.0	20.4	21.6	22.0		•
Pan Evap	2.0	4.1	۳° ۳	; 1	1.3	2.2	0.5	7.0	0	1.4	2.0	3.0	2.5	2.1	3.6	2.7	3.5	3.8	4.2	1.5	1.5	2.6	0.1	9.4	2.4	1.2	1.2	5.5	3.9	78.7 TOTAL
Precipitation Amt.	4.75		ري ري	2.50	.25			16.15		3.97		7.11	•	6.85	.251					2.28		1, 78	2							47.39 TOTAL
Wind Speed (MPH) Dir.	3 240 3 250	3 220	230	2 250	1 VAR	2 240	5 340	2 VAR		2 VAR			2 VAR						3 VAR		× ×			3			067 6	4 250	3 VAR	3 VAR/220
Rel. Hum. %	94	9/	84	96	88 0	06 •	09	93	81	9.5 2.6	6/	06	71	83	82	69	73	75	73	88	79	86	74	74	82	62	92	83	87	ī x
Temperature °C Max Min Avg	24 15 20 29 16 22	14 16	18	18	19	18	11	0	18	15	14	16	12	12	13	6	∞	7	9	10	7	10	7	9	6	17	50	13	12	25 13
Date	7 7	ღ .	4 u	n ve	<u>, </u>	. 0 0	6	10	11	12	13	14		16	17	۵. ت	10	200	2.0	22	23	2.7	25	26	2 6	17	97	30	31	AVG

Table 15d

Monthly Meteorological Summary

SEPTEMBER 1977

Soil Temp.	20.8 22.2 22.2	19.2 18.1 19.0 18.6	17.8 17.9 17.3 16.1	18.1 17.7 16.7 16.5 18.7 20.4 16.8	14.6 15.0 14.5 13.8 14.1 15.5 13.4
Pan Evap	7.6	~ ~ ~ ~ ~ ~ ~		750045004	2.3 0.5 1.0 1.3 1.5 1.3 2.1 0.6 3.1 62.5 TOTAL
·	Q (1) Q (0 0 m 4 0	9 4 8 6 4 6	880018	6/2/3 0 0 1 1 1 1 0 0 2
Precipitation Amt. (mm)	0.25	0.25	0.81 0.25 11.25	20.00 4.25 3.50 27.25 3.25	2.00 14.60 0.25 2.00 4.75 4.00 106.61 TOTAL
Wind H) Dir.	220 VAR	VAK 230 VAR VAR	200 230 360 VAR VAR	240 050 240 VAR 050 080	050 050 190 170 230 230 VAR VAR
Wind Speed (MPH) Dir.	ጀታጠና	m m 4 m m	. N W W W N	04211646	0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Rel. Hum. %	80 80 78	73 91 75 68	71 72 76 75 99	7 7 7 9 8 8 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	88 89 97 83 83 83
(°C)	24 24 19	18 17 16	15 112 113 113	16 13 12 14 20 10	111 10 113 113 114 119 119
Temperature (°C)	19 19 12	112 8 8	13 13 11 11	11 6 7 12 13 13 5	00000000000000000000000000000000000000
Temper	29 29 26	22 22 23 21 22 23 23 23 23 23 23 23 23 23 23 23 23	22 22 24 18 11 15	75 17 17 17 17 17 17 17 17 17 17 17 17 17	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Date	H 2 F	4597	8 10 11 13	14 15 16 17 19	21 22 24 24 25 26 27 29 30 AVG

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Monthly Meteorological Summary

OCTOBER 1977

Soil Temp.	(³ ₀)	13.9	14.5	13.9	12.9.	12.2	13.2	11.1	9.1	11.2	11.9	12.4	12.5	10.6	8.8	8.7	8.5	10.2	10.1	10.1	11.2	11.3	10.0	8.6	6.7	7.3	10.3	12.2	11.4	9.2	8.7	9.3	
on Pan Evap		1.9	1.3	3.7	2.6	2.0	1.2	1.7	3.0	0.5	0.7	1.0	0.5	1.1	1.4	0.8	1.1	1.2	1.9	0.7	0	2.3	0.7	6.0	ICE	3.9	1.0	7.0	1.1	2.6	ICE	1.4	•
Precipitation	Amt. (mm)	43.35	0.75				0.50		3.55	36.40	0.25				4.30	5.56	1.25	45.25					0.70										141.86 TOTAI
Wind	Speed (MPH) Dir.	VAR	030	360	340	230	230	020	200	240	270	VAR	VAR	VAR	020	360	VAR	300	240	090	030	250	VAR	360	VAR	VAR	220	1740	VAIA	010	070	0.0	VAR
~ !	Speed	ო	4	9	7	4	7	5	4	5	က	7	က	7	Ŋ	4	7	9	3	c	7	က	7	2	2	ı	4 <		7 6	n c	7 6	∩ -	114
Rel. Hum.	Mean	98	91	78	74	77	9/	72	77	91	81	78	79	79	76	93	88	06	70	91	79	74	79	09	78	80	9/	84	. E) >	×	×	81
Temperature (OC)	Avg	13	13	œ	œ	11	6	7	7	11	∞	6	6	2	7	7	7	7	œ	7	∞	6	œ	2	7	6	7	14	· «	×	Σ	. 4	1
ratur	Min	10	10	9	7	-	7	-2	-5	9	S	7	4	T	-5	0	7	7	ო	S	7	Н	7	٦-	9-	-	9	1		1	Σ	9) -
Tempe	Max	16	16	10	14	20	17	10	6	16	11	16	13	6	2	7	14	11	14	10	10	17	14	6	14	20	21	23	16	Σ	Σ	14	13
	Date	7	2	က	4	2	9	7	œ	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG

1977
NOVEMBER

Sofl Toms	(0 _C)	r	7.7	0 0	9.01	10.5	11.0	11.5	10.9	11.2	11.7	11.5	7 00	7.3	6.7	0.9	7.6	9.6	8.5	9.9	5.2	6.7	7.8	6.9	6.2	5.2	6.2	3.8	3,1	6.9	4.7	
Precipitation	Amt. (mm)				1,00	0.25	0.75	2.80	4.10	0.30	7.20	19.20						6.40	1,35					3.90	3.70		15.50		2.20		4.50 73.15 moral	711101 64.6
Wind	Speed (MPH) Dir.	2 240	1 VAR	2 230	2 240	3 040	3 230	2 100	5 070	2 VAR	3 190	7 230	2 210	7 360	5 330		3 VAR												2 VAR	2 VAR	$\frac{2}{4}$ VAR	
Rel. Hum. Z	Mean	87	06	83	77	91	×	X	91	66	66	70	76	80	58	88	82	93	79	59	71	80	94	78	92	79	93	53	91	85	93	1
Temperature (°C)	Max Min Avg	19 - 7 6	18 - 2 8	16 1 8	12 8 10	12 7 9	M M	10 M M	9 4 6	∞	16 10 13	-1	ლ 		∞ Ι	-10	16 - 2 7	9			က 1	8 1 4	7 - 1 3	5 - 3 1	8 3 5	7 - 2 3	7 - 2 2	9 - 6 - 6 -	0 - 7 - 3	3 - 6 - 2	$\frac{1}{8} - \frac{7}{0.3} - \frac{3}{4}$	
	Date	1	7	ю	4	S	9	7	œ	6		1	12	13	14	15	16	17	18	19	20	21	22		54	25	26	27	28	59	30 AVG	

rable 15g

Monthly Meteorological Summary

DECEMBER 1977

Soil Temp.	•	5.3	5.7	7.4	4 c	n o	0 a	• · ·	7.7	. C.	2.6	2.4	2.9	4.2	4.5	5.1	7-7	3.6	3.6	3.7	4.5	5.4	5.5	4.6	3.7	3.1	2.0	1.7	1.7	1.4	1.8	
Precipitation Amt. Snow Depth	<u>B</u>	14.6 2		. •		9 75 95		10 02.1	56 50 25	200.00	0 0 1				4.75 30		22.5	22	20	61	5.25 22		0 to	76	8.00	61	6	. 17		17	17	68.10 TOTAL
Wind Speed (MPH) Dir	000		253	5 270	4 040	M	M	2 VAR	5 230	7 330	4 VAR	3 VAR	4 VAR	5 240	5 010	9 360	6 040	3 VAR	090 9	090 7	4 330	4 230	5 220	1 VAR		5 300	1 VAR	C	2 VAR	1 VAR	5 050	4 VAR
Rel. Hum. Z.	76	. 79	57	99	88	100	Œ	×	Œ	55	X	Œ	\S	66	88	69	20	85	74	81	06	. 11	69	98	88	Œ	¥	Œ	Œ	Œ	Σ	Σ
Temperature (°C)	, , ,	11 0 6	S 2 2 .	5 - 3 1	-2 -7 -4	-1 -4 -2	- 3 -18 -11	- 5 -16 -10	- 1 -13 - 7	2 -16	2 -28	7	- 6 - 16 - 11	3 - 7 - 2	8	5 2 3	•	7	4 - 2 1	0 - 4 - 2	4 - 3 1	4 - 2 1	5 - 3 1	8 - 9 1	6 - 4 1	R -11 2	- 5 -22 -13	- 6 -22 -14	- 5 -21 -13	•	7	•
Date	н	2	m	4	'n	•	_	∞ •	6 (10	11	12	£7 :	14	15	16 	17	18	19	20	21	22	23	24	25	26	27	28	59	ک د		, v

Table 15h

Monthly Meteorological Summary

JANUARY 1978

	Temperature	ratur	(၁၀) ခ	Rel. Hum. Z		Wind	pitatic	Soil Temp.
Date		Min	Avg	Mean	Speed (MPH)	PH) DIE.	(mm)	
	-	-20	-10	×	Н	180	17	1.5
۱ %	i I	-21	-13	×	7	270	20	1.4
۳ ،	۔ ض ا	-23	-14	. Σ	2	240	77	1,7
. 4	- ن ا	-21	-14	×	CALM	VAR	77	1.7
· 1/-	· 🗝	-13	9 -	06	- -1	250	1.7 1.7	. 6
··c	- 2	- 7	٦.	82	7	020	71	2.0
· _	4 -	· ω	9 -	97	9	140	10	2.0
· 0 0	4	- 7	- 2	100	٠ د	240	13.75 $\frac{19}{13}$	2.0
o	'n	-13	- 5	9 %	6	250		1.9
10	-13	-19	-16	83	6	270		1.8
11	9	-19	-12	80	7	230		1.9
12	-	-18	-12	. 78	S	090		1.8
13	6 -	-18	-13	66	5	040		1.5
14	•	6 1	9 -	100	'n	020		1.2
15	9 -	-16	-11	95	က	010		1.0
16	1	-15	-10	81	7	240		1.2
17		-17	-13	26	. 4	090		1.0
18	9	-13	6 -	95	9	010		1.0
19	9	-15	-10	93	2	070		1.0
20	-11	-12	-11	96	9	040	9.30	0.8
21	∞ I	-12	-10	26	က	340		0.8
22	0	-21	-10	93	CALM	VAR		0.0
23	, 1	-20	-10	91	2	VAR		0.9
24	7	-23	-11	95	Н	VAR		1.0
25	-	9 -	- ع	66	H	VAR	12.00 65	1.2
26	12	3	ۍ	77	10	210		1.1
27	۳ ا	& I	- 5	77	6	220	31	1.0
28	- 5	-12	6 -	71	•	270	31	1.0
29	6 -	-20	-14	84	က	VAR	31	1.5
.30	о В	-17	-13	92	ന	030	37	1.6
31 AVG	4 4	는 당	$-\frac{12}{9}$	89	c 4	VAR 147	109.75 TOTAL	

Table 15i

Monthly Mereorological Summary

FEBRUARY 1978

Soil Temp.	(00)	1.1		0.8	1.0	1.4	1.1	1.5	1.7	1.8	1.8	1.5	1.1	1.3	1.5	1.2	1.4	1.7	1.4	1.1	1.1	1,1	1.3	1.5	1.6	1.2	1.1	1.5	2.0
Precipitation	Amt. Snow (cm)	37	36	34	33			16.75 M		89	99	26	55	54	54	54	54	52		:37 51		20	20	20	53	53	53	53	19.62 53 45
Wind	Speed (MPH) Dir.	3 VAR	1 VAR	4 030	4 030	1 VAR	7 050	9 030	5 030	1 VAR	1 CALM	1 M															3 VAR		$\frac{3}{3}$ $\frac{VAR}{VAR}$
Rel. Hum. Z	Mean	85	88	. 11	76	78	77	100	87	84	87	87																	78
Temperature (^{0}C)	Max Min Avg	- 5 -22 -13 .	- 6 -22 -14	-12 -25 -19	-12 -29 -20	-10 -29 -19	- 6 -16 -11	-4-7-6	- 3 -21 -12	2 -28 -13	- 4 -26 -15	-29	-21		-17	-22			1 -16 - 8				- 3 -24 -13			'n	-15	9	$-\frac{2}{2}$ $-\frac{20}{20}$ $-\frac{11}{11}$
	Date	-	2	٣	7	S	9	7	œ	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28 AVG

Monthly Meteorological Summary

MARCH 1978

Soil Temp.	1.8.	1.5	1.1	1.2	1.9	2.2	2.8	3.0	2.8	2.7	2.1	1.7	2.2	2.3	2.1	2.2	7.4	۲•۲	7.7	., ,	5.7	پ 4 ر	٠,٠	7,	T.5	7.7	7•7 7•7	7.4	7.7	4 c	יי מ מיים	1
Amt. Snow Depth (cm)	53	53	50 55	90 56	55	55	51	53	50	67	47	44	40		37	35	34	35	30	33	33	28	4.00 30	24	25	.60 24	.30 29	23	18	15	5	30.3 TOTAL
Amt.			1.	ŗ.										13.0									4.			2.	7.				ļ	30.
Wind MPH) Dir.	∑:	Σ	VAR	330	330	330	360	VAR	220	090	220	250	×	Z	270	090	330	240	240	VAR	230	270	VAR	350	VAR	VAR	. 520	250	260	030	360	VAIK
Speed (MPH)	¥	Œ	CALM	5	9	9	7	CALM	-1	7	7	2	×	E	4	7	7	7	œ	7	ო	ო	7	9	7	E	7	က	7	4	બાત	า
Rel. Hum. Z Mean	74	. 76	06	82	99	57	58	77,	69	77	74	85.	70	92	85	89	63	99	76	. 94	87	79	79	56	55	85	100	79	89	73	79	14
Temperature (°C) Max Min Avg	-22	-24		-12		-19	-13	6 -21 - 8								ω ι		-17	7 - 5 1		ı	4 - 3 1				1 - 3 - 1					7 - 6 - 1	
Date	-	7	ო	4	S	9	7	œ	6	10	. 11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		AVG

Table 15k

Date

Monthly Meteorological Summary APRIL 1978

Soil Temp.	2.9	2.7	2.2	3,3	3,3	6.4	3.4	3,3	2.6	3.7	5.1	5.1	8.6	7.8	9.9	6.3	7.6	9.3	8.1	7.4	7.6		ာ ဖ	ر د د د د	9.5	9.6	10.2	φ. c	0 0 0	<u>.</u>	
Amt. Snow Depth. (mm)	11.80			2.50	7.10		2.90	0.80			11.50	0.20							11.60	3.90	0.70									100 63	33.00 101AL
Wind Speed (MPH) Dir.	2 VAR	9 350	2 VAR	4 220	3 VAR	5 010	0 VAR	5 010	5 020	2 VAR		M				2 VAR	2 VAR	1 VAR	4 160	1 VAR	2 240	5 330	5 350	4 360	5 020	3 020	3 050	040 . 5	2 350	330	WWA C
Rel. Hum. Z. Mean	91	54	67	89	. 78	09	86	78	99	×	· .	71	. 61	61	73	74	78	70	84	100	88	61	53	72	72	26	65	09	57	24	1/
Temperature (°C) Max Min Avg	7 - 3 2 .	0 - 7	6. 1 8 1 2 0	2 0 1	6 1 3	8 - 4 - 2	2 - 4 - 1	4 - 3 1	5 - 5 0	12. 0 6	5 - 1 2	12 0 6	19 - 1 9	7 1 4	6 - 1 3	8 - 2 3	10 - 2 4	15 - 3 6	10 - 2 4	9 7 8	9 7 1	12 - 2 5	13 - 4 5	15 - 3 6	11 - 1 5	17 - 3 7	18 - 1 9	16 - 1 8	18 - 2 8	5 - 2 - 2	10 - 2 4
				-													•	•													۸ ا

Monthly Meterological Summary

May 1978

Soil Temp.	७०५	04840000000
	8.99.99.91.11.12.23.11.13.23.23.23.23.23.23.23.23.23.23.23.23.23	14.7 16.2 16.2 16.3 17.3 17.3 18.2 18.0
Precipitation (cm) Amt (mm) Snow Depth	17.90 8.00 5.20 2.30	1.70 7.70 42.8 TOTAL
Wind Dir.	NW VAR VAR SW VAR VAR SE ESE VAR VAR VAR	VARR N VAR VAR
Speed (MPH)	ееенныеесудачась —	
Rel. Hum. % Mean	72 73 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75	7.7 7.7 7.7 7.7 8.8 7.7 8.8 7.7 7.7 7.7
Av8	2	14
Temperature ^O C Max Min Avg	717777777777777777777777777777777777777	12
Temp	10	20 2 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Date	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 22 23 24 25 26 29 30 30 Avg

Table 16 Yields of Plant Material From Individual Harvests (June 1977-June 1978)

Harvest Date

Test Area	July 1977	September 1977	June 1978	Total
		kg/ha	-	
Primary Section	1763	1983	3612	7358
Secondary Section	1596	1855	2947	6398
Control Section	547	580	259	1386

Table 17
Percent N and P in Individual Harvests

Harvest Date

Test Area	July 1977	September 1977	June 1978
		%N	
Primary Section	2.60	3.07	3.26
Secondary Section	3.14	2.25	2.86
Control Section	2.53	2.39	3.07
		%P	
Primary Section	0.41	0.42	0.52
Secondary Section	0.45	0.43	0.50
Control Section	0.37	0.35	0.41

Table 18 Nitrogen and Phosphorus Uptake by Vegetation

Harvest Date

Test Area	July 1977	September 1977	June 1978	Total
		Nitrogen	(kg/ha)	
Primary Section	46	61	117	224
Secondary Section	50	42	84	176
Control Section	14	14	8	36
		Phosphoru	s (kg/ha)	
Primary Section	7.2	8.3	18.8	34.3
Secondary Section	7.2	8.0	14.7	29.9
Control Section	2.0	2.0	1.1	5.1

Table 19a Soils Analysis from Primary Section (Oct. 20, 1977)

Location*	Depth (cm)	Depth Moisture Content (cm) (2)	Soil pH	Soluble cations (meq/1008) NH, Na K Ca Mg	, ‡	Exchangeable cations (meq/100g) TEC** NH, Na K Ca Mg (meq/100g)	Soluble NO3 g) (meq/100g)
la	2-9	39.3		0.121	0	0.019	0.180
la	5-15	30.4		0.036	ö	0.103	0.00
91	9-5	36.8		0.120	0	0.114	0.122
16	5-15	. 27.8		0.050	Ö	0.017	0.005
2a	9-5	33.3		0.096	0.	0.076	0.094
2a	5-15	28.6		0.072	o.	0.018	0.018
2 b	۶ -	31.4		0.050	Ö	0.030	0.003
2b	5-15	28.8		0.015	0	0.012	0.002
3a	5-0	32.6		0.105	.0	0.033	0.016
3a	5-15	28.1		0.049	0	0.013	0.001
3b	5-0	32.8		0.074	o.	0.029	0.001
38	5-15	30.3		0.044	o.	0.014	0.007
48	0-5	35.7		0.171	o.	0.035	0.010
4a	5-15	30.6		0.080	Ö	0.017	0.027
4 b	0-5	33.2		0.080	0	0.028	0.001
4 p	5-15	29.6		0.112	o.	0.016	0.004
* See Figure 3	ure 3	:					

** Total Exchangeable Cations + By weight

	1977)
	22,
	(Oct.
19b	Section
Table	Primary
	from Primary
	-
	from F

					Soll Analysis from Primary Section (Oct. 22, 19//)	SIS II	rom Prima	ry Sect	on (oc	t. 22, 1	(//6				Soluble
Location*	l	Depth Moisture Content (cm) (2)	Soil pH	**************************************	Soluble Cations (meq/100g) Na K Ca ++	ons (¤ K ⁺	meq/100g)	# ₈ W	~	Exchangeable Cations (meq/100g) H ⁺ Na K Ca H Mg ⁺⁺	Cation K	ns (meq. Ca	/100g) Mg ⁺⁺	TEC** (meq/100g)	NO3 (meq/100q)
la	0-5	42.5	-	0.124					0.123						0.154
la	5-15	31.8		0.053					0.039						0.043
1P	2.	41.6		0.147					0.110						0.200
qı	5-15	28.3		0.081					0.049						0.012
2a	Ş	47.1		0.097					0.110						0.058
2a	5-15			0.058					0.026						0.008
2 P	9-5	38.3		0.056					0.054						0.007
2 b	5-15	34.2		0.041					0.026						0.002
3a	5-0	35.4		0.050					0.056						0.048
3a	5-15	32.1	-	0.022					0.023						0.005
38	5-0	33.1		0.041					0.032						0.001
39	5-15	30.0		0.056					0.017						0.001
4a	9-5	38.1		090.0					0.054						0.012
4a	5-15	28.8		0.041					0.021						0.003
4 P	0-5	37.6		0.068					0.045						0.003
4 p	5-15	31.4		0.042					0.026						0.002
4	;														

Table 19c Soil Analysis from Primary Section(Oct. 25, 1977)

	Depth	Depth Moisture Content	Soil pH		oluble,C	ations, (meq/100g			angeab	le Cati	eno.	(*001/ "	*****	Soluble NO ₂
Location*	(CE)	(X) ₊		PH ⁴	Na	NH4 Na K Ca	Ca	Mg	- 1	Na+	+₩	‡ 8	NH4 Na K Ca Mg	(meq/100g)	(me4/100g)
la	ا	37.0	6.4	0.066					0.083	0.34	0.09	2.61	0.39		0.132
la	5-15	27.5	6.8	0.071					0.023		0.54 0.12	1.50	0.17		0.205
16	ş	30.5		090.0					0.062						0.064
1b	5-15	27.3		0.042					0.019						0.004
2 a	25	38.9		0.065					0.086						0.116
2a	5-15	30.7		0.036					0.029						9000
2 P	ર્ર	31.3		0.043					0.045						0.001
ន 76	5-15	28.2		0.046					0.034						0.013
34	2	34.6	9.9	0.059	0.14	0.02	0.07	0.10	0.065	0.34	٥٠.0	1.97	0.20		0.004
æ	5-15	29.0	6.7	0.047	0.13	0.02	0.05	۰ 96	0.041	0.32	0.09	1.62	0.10		0.001
38	6-5	33.3		0.048					0.034						0.003
æ	5-15	30.1		0.042					0.025						0.001
4a	6-5	33.3		0.052					0.062						0.021
6 4a	5-15	22.7		0.052					0.043						0.003
4 p	5	40.5		0.115					0.049						0.116
qp	5-15	30.2		0.074					0.034						0.002
* See Figure 3	gure 3														

** Total Exchangeatle Cations + By weight

Table 19d

					Soils An	alysis	from Pri	Soils Analysis from Primary Section (Nov. 8, 1977)	tion (N	ov. 8,	(2261				,
Locat	Depth Location* (cm)	Depth Moisture Content (cm) (%)	Soil pH	Sol NH4	Soluble Cations (meq/100g) Na K Ca	ons (me	q/100g) Ca++	¥88,	Exc NH ⁺	nangeab Na	le cati K ⁺	ons (m	Exchangeable cations (meq/100g)	TEC** (meq/100g)	NO3 (meq/100g)
la	0-5														
la	5-15														
1b	9-5	41.3	6.7	0.054	0.14	0.03	90.0	0.10	0.045	0.31	0.14	2.29	0.42		0.018
1 P	5-15	32.0	6.7	0.047	0.13	0.03	0.03	0.07	0.025	0.39	0.13	1.22	0.010		0.006
2a	9-5														
2a	5-15														
2 3	0-5	34.0		0.049					0.029						0.002
3 3	5-15	32.5		0,040					0.023						0.002
့် 7	0-5														
్లజ 7	5-15														
æ	0-5	37.8	7.2	0.054	0.23	0.03	0.09	0.08	0.025	0.33	0.13	2.33	0.20		0.000
ક્ષ	5-15	32.6	7.4	0.05+	0.17	0.02	0.04	0.08	0.015	99.0	0.08	1.78	0.11		0.000
48	0-5														
e ₇	5-15														
4 P	0-5	41.1		0.061					0.033						0.001
q _p	5-15	37.6		0.065					0.018						0.000
* * +	See Figure 3 Total Exchang By weight	See Figure 3 Total Exchangeable Cations By weight													

Table 19e

					Soils A	ınalysis	Soils Analysis from Primary Section (Dec. 5, 1977)	rimary Sec	tion (De	č. 5,	(7761				6.111
	Depth	Depth Moisture Content Soil	Soil pH		Soluble Cations (meq/100g)	ations	(meq/100g	~	Exch	angeab	le Cat:	ons (me	Exchangeable Cations (meq/100g)	TEC**	NO.
Location*	(CB)	(x)		NH4	Na+	+*	Ca Ŧ	‡8 _W	+ 7 EN	+ eN	+×	‡	‡ ₈	(meq/100g)	(meq/100g)
116	£.5	40.3	6.7	0.050	0.17	90.0	0.14	0.08	0.063	0.39	0.21	2.18	0.22		0.100
la	5-15	28.7	7.2	0.045	0.12	0.02	0.05	0.05	0.023 0.41	0.41	0.11	2.00	0.09		0.013
119	0-5														
116	5-15													•	
2a	6-5	39.5		0.031					0.051						0.078
2a	5-15	32.0		0.022					0.059						0.007
26	0-5														
8	5-15														
3a	0-5	36.3	7.0	0.040	0.15	0.03	90.0	0.07	0.000 0.32	0.32	0.11	1.83	0.22		0.062
3a	5-15	31.0	6.9	0.028	0.28	0.04	90.0	0.05	0.032 0.30	0.30	0.08	1.48	0.08		0.003
39	0-5								•						
98	5-15														
4a	0-5	37.7		0.037					0.050						0.028
48	5-15	28.0		0.034					0.032						0.002
4 p	0-5														
4P	5-15														

* ‡ +

Table 19f Soils Analysis from Primary Section (April 3, 1978)

			•				•			60111
Location*		Depth Moisture Content Soil pH (cm) (2)	Soluble Cations (meq/100g) NH $_4^+$ Na $^+$ K $_4^+$ Ca $^{++}$	ons (meq/100g K ⁺ Ca ++	\$ # Wg #	Excha NH ⁺	ingeable Cati Na [†] K [†]	Exchangeable Cations (meq/100g) $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$ $^{+}$	TEC** (meq/100g)	NO3 (meq/100g)
La	0-5	56.2				0.15			5.33	
la	5-15	33.2				0.11			4.75	
व	0-5	52.7				0.14			3.35	
16	5-15	33.4				90.0			4.17	
2a	0-5									
2a	5-15									
2 b	0-5									
2 b	5-15									
eg 79	0-5					0.17			5.20	
3a	5-15					0.17			3.12	
38	05	73.7				0.10			5.88	
38	5-15	31.4				0.05			4.12	
4a	0-5									
4 a	5-15									
4 P	0-5									
4р	5-15									
* See Fi	See Figure 3	111								

** Total Exchangeable Cations + By weight

Table 20a
Soils Analysis from Secondary Section (Oct. 20, 1977)

					Soils Analysis from Secondary Section (Oct. 20, 1977)	lysis f	rom Seco	ondary S	ection (0ct. 20	, 1977)	_			6.111
Location*		Depth Moisture Content Soil (cm) (%)+	Soil pH	NH ⁺	Soluble Cations (meq/100g. Na K Ca	tions (meq/100g Ca ⁺⁺	Kg T	N.	Exchangeable Cations (meq/100g)	le Cati K [†]	lons (me Ca ⁺⁺	1	TEC** (meq/100g)	NO3 (meq/100g)
la	2-0	28.1		0.084					0.048						0.075
la	5-15	28.0	3	0.057					0.018						0.003
16	Q-5	36.2	-	0.090					0.048						0.032
1b	5-15	28.3	3	0.044					0.015						0.003
28	0-5	33.0	3	0.059					0.054						0.012
2a	5-15	28.6	J	0.039					0.033						0.001
3 P	6-5	31.8	•	0.074	•				0.046						0.044
8 8	5-15	26.3	•	0.041					0.014						0.003
۵ تا	6-5	30.6	•	0.056					0.032						0.001
3a	5-15	26.3	•	0.052					0.017						0.000
39	0 - 5	33.2	_	0.058					0.039						0.028
36	5-15	27.1	_	0.045					0.016						0.002
48	0-5	32.5	-	0.052					0.025						0000
48	5-15	29.0	~	0.043					0.014						0000
4p	0-5	33.5	_	0.067					0.025						0.014
4 P	5-15	30.3	_	0.046					0.011						0.001
* See F	See Figure 3														

				Soils Anal	ysts f	rom Seco	ndary Se	ction (Soils Analysis from Secondary Section (Oct. 22, 1977)	5			•
Location*		Depth Moisture Content Soil pH (cm) (x)+	NH ⁺	Soluble Cations (meq/100g) Na	tons (i	meq/100g Ca	, Mg+	Excl NH ⁺	Exchangeable Cations (meq/100g)	ations (m	meq/100g) ++ Mg	TEC** (meq/100g)	Soluble NO3 (meq/100g)
la	0-5	31.5	0.055					0.056					0.057
la	5-15	27.8	0.034					0.032					0.007
16	0-5	34.9	0.091					0.060					0.053
16	5-15	28.8	0.030					0.020					0.044
2a	0-5	37.9	0.054					0.039					0.005
2a	5-15	29.4	0.033					0.028					0.03
2 P	0-5	32.6	0.047					0.041					0.027
2 P	5-15	26.9	0.039					0.021					0.004
ج 13	0-5	31.8	0.055					0.039					0.002
3a	5-15	26.6	0.047					0.021	•				0.002
35	9-5	33.4	0.063					0.040					0.021
38	5-15	25.3	0.053					0.025					0.004
43	6-5	33.6	0.038					0.034					0.001
4a	5-15	28.5	0.039					0.015					0.001
43	0-5	38.6	0.071					0.053					0.014
4 p	5-15	31.1	0.024					0.013					0.002
* See F	See Figure 3												

					Soils A	nalysis	from Sec	Soils Analysis from Secondary Section (Oct. 25, 1978)	ection (0ct. 23	, 19/8)				
Location*		Depth Moisture Content (cm) $(x)^+$	Soil pH	NH+	Soluble Na	Cations K ⁺	Soluble Cations (meq/100g) Na K Ca	g) Mg‡	曼	hangeab + Na	le Catf K ⁺	ons (we	Exchangeable Cations (meq/100g)	TEC** (meq/100g)	NO NO (meq/100g)
la	6-5	28.6		0.064				<u> </u>	0.063						0.325
la	5-15	26.1		0.037					0.052						0.043
16	0-5	30.3	6.3	0.068	0.13	0.01	90.0	90.0	0.050	0.34	0.08	1.41	0.28		0.479
16	5-15	27.9	7.2	0.046	0.13	0.01	0.04	90.0	0.024	0.39	0.05	1.52	0.11		0.175
2а	0-5	31.8		0.054					0.054						0.050
2a	5-15	26.3		0.074					0.045						0.234
2 P	0-5	32.7		0.051					090.0						0.079
ج 8	5-15	26.4		0.055					0.026						0.086
8 2	9-5	31.9		0.040					0,040						0.079
3 a	5-15	26.8		0.059					0.027						0.001
8	0-5	32.0	6.5	0.045	0.17	0.02	90.0	90.0	0.049	0.27	0.08	2.00	0.28		0.018
38	5-15	27.0	7.3	0.043	0.13	0.02	0.04	90.0	0.020	0.29	0.08	1.75	0.10		0.002
4a	0-5	31.2		0.033					0.029						0.001
48	5-15	28.7		0.028					0.024						0.001
4p	0-5	37.5		0.047					0.047						0.006
4 p	5-15	29.9		0.039					0.026						0.044
* See Figure 3	gure 3														

									(1500)	contract to the contract of the	•					Soluble
S.	Location*	Depth (cm)	Depth Moisture Content Soil pH (cm) (2)	Soil pH	HW.	Soluble Na	Cations K ⁺	Soluble Cations (meq/100g) Na	g) Mg #		hangeab Na	le Cati	ons (me	Exchangeable Cations (meq/100g) N_L^+ N_B^+ N_B^+ N_B^+ N_B^+ N_B^+ N_B^+	TEC** (meq/100g)	NO ₃ (meq/100g)
1 2		0-5							f	1						
la	æ	5-15														
91	Δ.	ş.	35.2	6.9	0.083	0.15	0.03	0.05	0.16	0.047	0.27	0.12	1.64	0.29		0.009
श	A	5-15	31.2	7.4	0.044	0.13	0.02	0.02	0.10	0.029	٥.32	0.07	1.45	0.0		0.005
2a	pel	6-5	34.7		0.055					0.038						0.003
28	pa	5-15	35.5		090.0					0.025						0.000
25	A	P-5														
2 P	.	5-15														
ළි 83	er	د 5	44.1	7.2	0.092	0.17	0.04	90.0	0.09	0.033	0.30	0.13	2.72	0.22		0000
₹	ęs.	5-15	27.4	7.7	0.058	0.17	0.02	0.05	0.07	0.016	0.35	60.0	1.74	0.11		0.001
8	æ	P-5														
æ		5-15														
4	gel	55	36.6		0.056					0.022						0.001
48	æ	5-15	34.5		0.037					0.011						0.001
44	•	6-5														
47	, pa	51-5														
* ‡ +		jure 3 kchangeal ht	See Figure 3 Total Exchangeable Cations By weight													

Solls Analysis from Secondary Section (Dec. 5, 1977)

Mary Control

				-	Soils Analysis from Secondary Section (Dec. 5, 1977)	alysis	from Sec.	ondary Se	ection (Dec. 5,	(1977)				Soluble
	Depth	Depth Moisture Content Soil pH	Soil pH		Soluble Cations (meq/100g)	ations	(meq/100 _l	3		hangeab	le Cati	lons (me	Exchangeable Cations (meq/100g)	TEC**	NO.
Location*	(CB)	(Z)		NH+	ha +	+*	‡8	‡ ₈	NH4	Na +	+×	‡ _g	‡ ₈₈	(meq/100g)	(meq/100g)
la	Ş														
la	5-15														
4	9-5	46.2	9.9	0.076	0.27	0.03	0.14	0.15	0.086	0.36	0.10	1.94	0.24		0.086
91	5-15	28.4	7.3	0.027	0.13	0.01	0.05	0.05	0.025	0.42	90.0	1.70	0.02		0.005
28	0-5														
28	5-15														
92	0-5	42.6		0.040					0.050						0.038
a 84	5-15	29.4		0.027					0.023						0.002
æ	0-5														
38	5-15														
æ	0-5	37.2	8.9	0.040	07.0	0.08	0.09	0.07	0.050	0.050 0.39	0.07	1.62	0.19		0.085
æ	5-15	28.2	2.5	0.031	0.14	0.03	0.04	0.10	0.023	0.38	0.01	1.77	0.08		0.015
4.8	0-5														
48	5-15														
4p	0-5	37.5		0,040					0.038						0.032
4P	5-15	34.4		0.027					0.018						0.001
* See F	figure 3	See Figure 3													

** Total Exchangeable Cations + By weight

and the state of the

Table 20f Soils Analysis from Secondary Section (April 3, 1978)

						Soils Analysis from Secondary Section (April 3, 1978)	ysis f	rom Sec	ondary Se	Section	(April 3,	1978)		14.14.
! ደ	Location*	Depth (cm)	Depth Moisture Content Soil (cm) (%)	푎	NH+	Soluble Cations (meq/100g) Na K Ca ++	tons (meq/100 Ca	g) Mg†	Ż	cchangeabl Na	Exchangeable Cations (meq/100g)	TEC** (meq/100g)	Soluble NO ₃ (meq/100g)
la a		6-5	55.4							0.13			6.20	
la		5-15	31.9										3.42	
4	_	6-5	53.3							0.09			3.04	
15	_	5-15	29.2							0.04			2.36	
28		5.												
28		5-15												
2P	_	5-0												
8	i	5-15												
8: 8:	_	9-5	70.4							0.08			3.71	
୍ଷ୍ଟ 5		5-15	31.6							0.02			2.16	
3	_	5-	57.1							0.07			2.92	
8	_	5-15	30.4							0.04			2.04	
48		5-												
48		5-15												
4 P	_	0-5												
49	_	5-15												
* # +		gure 3 Exchangea tht	See Figure 3 Total Exchangeable Cations By weight											

Table 21a Soils Analysis from Tap Water Section (Oct. 20, 1977)

					Soluble
Location*	Depth (cm)	Depth Moisture Content Soil pH (cm) (x)	Soluble Cations (meq/100g) $^{+}$ NH $^{+}$ Na $^{+}$ K $^{+}$ Ca $^{+}$ Mg $^{++}$	Exchangeable Cations (meq/100g) TEC** NH_4^+ Na K Ca H_6^+ (meq/100g)	NO ₃) (meq/100g)
]a	0-5	29.7	0.061	0.039	0.002
1a	5-15	29.4	0.051	0.032	0.047
91	1	33.6	0.084	0.036	0.001
16	5-15	28.4	0.053	0.020	0.001
2a	٩	34.9	0.060	0.027	0.000
28	5-15	30.0	0.042	0.016	0.001
2 P	2	37.8	0.075	0.031	0.001
3p	5-15	32.6	0.049	0.014	0.078
, 3a	6-5	31.8	0.076	0.032	0.000
3a	5-15	29.0	0.055	0.014	0.001
39	5-	35.9	0.061	0.045	0.001
39	5-15	29.5	0.043	0.024	0.001
48	6-5	35.6	0.058	0.042	0.001
4a	5-15	26.6	0.027	0.023	0.001
4 p	Ş	36.7	0.089	.0.021	0.003
4 9	5-15	28.8	0.021	0.021	0.001
* See F1	See Figure 3				

Table 21b

			٠	S	Soils Analysis from Tap Water Section (Oct. 22, 1977)	is fr	om Tap w	ater Sec	tion ((ct. 22,	(7761			
Location*	Depth (cm)	Depth Moisture Content Soil pH (cm) (x) ⁺		Sol NH ⁺	Soluble Cations (meq/100g) Na K Ca +	ons (¤	eq/100g)	‡ <u>&</u>	Excl NH ⁺	angeable Na	Cations K ⁺ Ca	Exchangeable Cations (meq/100g)	(meq/100g)	NO3 (meq/100g)
la	Q-S	29.2	ó	0.047					0.048					900.0
la	5-15	28.6	0.	0.040					0.042					0.001
qq	9-5													
91	5-15													
28	Į,	34.7	°.	0.071					0.044					0.001
2 a	5-15	29.3	0	0.023					0.025					0.001
2 P	9-5°													
2 b	5-15													
3 8	Į,	33.0	0	0.055					0.047					0.001
38	51-5	28.9	0	0.041					0.019					00000
ቋ	Ą													
æ	51-5													
4a	6-5	32.9	o	0.049					0.040					0.001
48	5-15	27.5	0	0.017					0.025					0.001
4 P	ا													
4 b	5-15													

Table 21c Soils Analysis from Tap Water Section (Oct. 25, 1977)

					SOTTS VIIG	21861	SOLIS ANALYSIS ITOM TAP WATER SECTION (OCT. 23, 1977)	acei oe	1) 1101122	JCE - 43,	(//61 '			
•		Moist	Soil pH	+	Soluble Cations (meq/100g)	rions +	(meq/100g)	‡	Excl	nangeab] +	le Cation		TEC**	NO NO
Location*	(CB)	(1)		TE TE	Na	≥	Ca	. S	7HN	Na	×	Ca Mg	(meq/100g)	(meq/100g)
J.	د	31.6		0.083					0.034					0.116
la	5-15	28.3		0.074					0.035					0.218
91	0-5													
91	5-15													
2a	05	43.6		0.084					0.050					0.001
2a	5-15	30.4		0.038					0.026					0.001
3 b	0-5													
3 P	5-15													
3a	05	28.6		0.066					0.028					0.059
38	5-15	27.5		0.086					0.024					0.001
æ	0-5													
38	5-15													
6 a	0-5	30.4		0.041				0	0.036					0.001
48	5-15	29.9		0.030				0	0.028					0.001
9 7	0-5													
4 p	5-15													

Table 21d from Tap Water Section (Nov. 8, 1977)

						Soils Analysis from Tap Water Section (Nov. 8, 1977)	lysts f	rom Tap	Water S	ection	(Nov. 8,	1977)				60110
Loca	Locatien*	Depth (cm)	Depth Moisture Content Soil (cm) (Z)	Soil pH	* + *EN	Soluble Cations (meq/100g) Na K Ca	tions ((meq/100) Ca++	8) Wg ‡	Ż	changeab Na	le Cati K ⁺	Exchangeable Cations (meq/100g) $\frac{1}{4}$ Na K Ca H Mg ++	TEC** (meq/100g)	,)g)	Soluble NO ₃ (meq/100g)
4		8-5	39.3		0.062					0.033						0.003
la		5-15	36.3		990.0					0.027						0.001
11		ا ر														
15		5-15														
2 a		0 . 5														
2a		5-15														
2 P		6-5														
2 2		5-15														
, 89		6-5	38.5		0.048					0.036						0.001
38		51-2	32.8		0.031					0.014						000.0
æ		6-5														
39		5-15														
48		9-5														
84		5-15														
4p		6-5														
4p		5-15														
* # +	See Figure 3 Total Exchang By weight	ure 3 Kchangea ht	See Figure 3 Total Exchangeable Cations By weight													

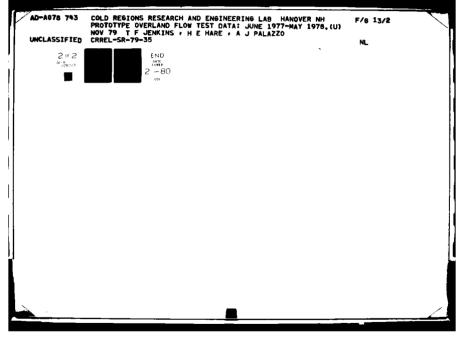


Table 21e Soils Analysis from Tap Water Section (Dec 5, 1977)

	Depth	Depth Moisture Content Soil	Soil pH		Soluble Cations (meg/100g)	ons (r	meg/100g)		Exch	angeable	Cations	Exchangeable Cations (meq/100g)	TEC**	Soluble NO
Location*		(X)	,	**************************************	+ Na	+~	‡.	‡80	+ NHV	Na+ K	K ⁺ Ca ⁺	+ Mg++	(meq/100g)	(meq/100g)
1	Q-5				•									
•1	5-15													
91	6-5	34.5		0.040					0.041					0.000
ą	5-15	28.8		0.031					0.021					0.000
7	0-5	43.5		0.027					0.037					0.000
7 2	5-15	36.2		0.020					0.028					0.000
29	9-5													
a 90	5-15													
문	0 - 5	42.3		0.031					0.034					0.004
A	5-15	36.6		0.027					0.019					0.001
38	5-0													
ድ	5-15													
;	0-5													
#	5-15													
4	Q-5	40.1		0.049					0.041					0.002
4b	5-15	31.4		0.023					0.033					0.002
* See Fi	See Figure 3													

Table 22

Bulk Density and Volumetric Moisture Content

Section	Depth		lk Densi g/cc		V.	olumetri Conten	c Moisture t(%)
Section	(cm)	Distan	ce Downs	lope (m)	Dis	tance Do	wnslope (m)
		3	12_	21	3	12	21
Primary	0-7.5	1.37	1.38	1.38	46.6	45.6	47.3
	7.5-15	1.37	1.43	1.36	45.2	45.6	47.3
2	0-7.5	1.38	1.27	1.37	46.5	49.8	46.1
	7.5-15	1.46	1.46	1.44	42.9	44.6	43.4
3	0-7.5	1.38	1.41	1.20	45.5	45.9	50.0
	7.5-15	1.38	1.50	1.42	42.9	42.2	45.0

Table 23

Particle size analysis for the Three Prototypes

Section #	Particle %	Size Dist	ribution A	
	Sand >50µ	Silt 50 μ-20μ	20ր–2ր	Clay <2µ
Primary	36	38	24	2
Secondary	40	38	20	2
Tapwater	37	42	20	1